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# THE EVOLUTION OF THE CURRICULUM OF THE UTAH STATE AGRICULTURAL COLLEGE

## A thesis.

submitted to the School of Education of the Utah State Agricultural College, in partial fulfillment of the requirements for the degree of Easter of Science.

By Alfred B. Hart

**Say** 1934

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# THE EVOLUTION OF THE CURRICULUM OF THE

# UTAH STATE AGRICULTURAL COLLEGE

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# UTAS STATE AGRICULTURAL COLLEGE INTRODUCTION

The chief purpose of this work is to trace the development of the carriculum of the Utah State Agricultural College from the establishment of the institution to the present time, with emphasis upon the forces shaping it. These forces have been active since colonial times, and in them lies the explanation for much of what the college is today.

The Utan State Agricultural College is a part of a much larger system, which has developed parallel to it in many respects, and which has in other respects been a force in determining the direction in which the college was to develop.

in relation to its larger setting and an understanding of its development through a knowledge of the forces which brought it into being and shaped its development, the writer feels justified to include a brief discussion of the movement toward federal aid for education, which culminated in the establishment of the land-grant colleges and universities with their powerful stimulus to the democratization of education and to the liberalization of higher learning.

The treatment of the organization of the college and the early years of its existence is general, but later sections consist of the analysis of the changes within the various schools and departments. In this analysis those changes are

noted which have had a bearing upon the evolution of courses.

Minor changes and developments, which have had little effect

upon the trends under consideration in this paper, have not

been considered.

The historical method of research has been used in the selection and organization of the material used in this discussion. The material has in the main been secured from secondary sources, but in so far as possible it has been substantiated by parallel writings from different sources. Doctor A. C. True's "History of Agricultural Education in the United States", has been used largely as a source of material for the part of this work dealing with nation-wide movements. The book is valuable for such a purpose because of the extensive direct quotations embodied from original documents, many of which have been incorporated into this paper.

The material used from Doctor True's work has been compared with the writings of Flotcher Harper Swift, who is an authority on the relations of the federal government to public school finance, and the two are in strict agreement.

The writings of Bostor Paul Bonroe have been used as source material and also for the substantiation of other material relating to national movements. The "Survey of Land-Grant Colleges and Universities" directed by Arthur J. Klein has also been consulted, and it substantiates the materials used.

The chief sources of material for the portion of this account dealing specifically with the curriculum of the Utah Agricultural

College have been: The Biennial Reports of the Board of Trustees. The Catalogues of the College. The Bulletins of the College. The Report of the Utah Survey Commission of 1925, and other publications of the college and state as listed in the bibliography. This material is in the main reliable but it has the limitation which characterizes most sources of historical data, that of being fragmentary. Comparisons have been made where sources are parallel and the authentic account presented as nearly as it could be determined.

# Heed and Early Development

colonies was, quite naturally, the same as that of the Suropean countries from which the colonists came. "The doctrine
that the parent was responsible for the education of the child
and therefore should pay for his schooling was long used to
hinder the public support of education, especially as applied
to privary and secondary schools. For many centuries in the
Old World the church rather than the state was looked upon as
the proper authority under which public education should be
consideted, .... (and) higher education .... was primarily for
the training of ecclesiastical leaders,..." and hence of little
concern to the state.

the adoption of the constitution in 1788 determined definitely that the promanent government of the United States was
to be democratic in nature. The value of an educated citizenry
under such a form of government soon became apparent to statesmen who could see that the only way to secure such a citizenry
would be through a system of free public schools supported by
taxation.

"Knowledge is in every country the surest basis of happiness.

In one in which the measure of government receive their impression so immediately as in ours, from the sense of the community it is proportionally essential..... Whether this be best

I. True, A. C. - A History of Agricultural Education in the United States p. 18.

established, by the institution of a national university or by other expedients, will be well worth a place in the deliberations of the Legislature. This quotation clearly indicates that washington believed in education as a means of disseminating knowledge and recognized the necessity for an improved educational system for which the government should feel a responsibility.

Jefferson's belief in education as the safeguard of democracy is clearly indicated in the following extract from a letter which he wrote to Washington in 1786: "It is an axiom in my mind that our liberty can never be safe but in the hands of the people themselves, and that, too, of the people with a certain degree of instruction. This is the business of the State to effect and on a general plan."

Hext to Jefferson the most active of our early statesmen in educational matters was President Madison, who wrote, "A popular government without popular information or the means of acquiring it, is but a prologue to a farce or a tragedy, or perhaps both." As a result he believed that "the best service that can be rendered to a country, next to giving it liberty, is in diffusing the mental improvement equally essential to the preservation and enjoyment of that blessing."

The need for an improved system of education was a reality and not marely an illusion of these leaders, as is indicated by

<sup>1.</sup> Hobertson - Jessages and Papers of the Presidents Vol. 1 p. 66

<sup>2.</sup> Monroe, Paul - Text Book in the History of Mucation p. 713

the following quotation from a New England newspaper of 1816. opposing a plan for street lighting: "Artificial lighting is an attempt to interfere with the divine plan of the world. which calls for dark during night tile..... Amanations of illuminating gas are injurious ..... lighting streets will incline people to remain outdoors, thus leading to increase of allments by columns. The fear of darkness will vanish. and drunkenness and depravity increase." The ignorance of the people regarding science and the application of science is further exemplified by the following answer given by a school board of Lancaster. Ohio in 1829, to a request for the use of the school building for a discussion of the presticability of railways: "You are welcome to use the school house to debate all proper questions, but such things as railroads are impossibilities and rank infidelity..... God never intended that His intelligent oreatures should travel at the frightful speed of fifteen miles an hour."

Movement Leading to the Satablishment of Land-Grant Colleges

The chief concern here is with higher education and that primarily as it is related to federal aid. This justifies the omission of an account of the process whereby elementary and secondary education become recognized as the function of the states. However, a brief discussion of the ways in which the states have aided higher education is not assiss inassuch as it

<sup>1.</sup> Kerr. D. J. - The Spirit of the Land Grant Institutions (Bulletin) p. 7

<sup>2.</sup> Ibia

has developed into the present system of state support and suggests the methods of federal aid.

"The principal ways in which the several states have aided education may be enumerated as follows: (1) By granting charters with privileges; (2) by freeing officers and students of colleges and universities from military duties; (3) by exempting the persons and property of the officers and students from taxation; (4) by granting land endowments; (5) by granting permanent money endowments by statute law; (6) by making special appropriations from funds raised by taxation; (7) by granting the benefits of lotteries; and (8) by special gifts of buildings and sites. Hearly all of these methods originated among the colonies and were adopted by States."

of the states to education: "(1) In colonial times state, private, and church benevolence worked together; (2) subsequently private and church schools were prominent, still being aided by state appropriations; (3) the gradual constitute of state aid to private and church schools, and the growth of State Universities."

"The colleges of the American Colonies and some of the States formed early in the history of the United States in many cases received public aid through grants of land or money. A number of these institutions became land-grant colleges after the passage of the Morrill act of 1862."

<sup>1.</sup> Blackmar - History of Federal and State Aid to Higher Education p. 345. (Requoted Bfom True, A. C. - History of Agricultural Education in the United States p. 20.)
2. Ibid.

<sup>3.</sup> True, A. C. - A History of Agricultural Education in the United States p. 19

Proposale for federal aid for education took a great variety of forms. In the constitutional convention of 1787 Charles Pinckney offered a plan for a federal constitution which contained a clause authorizing Congress "to establish a university" but the plan was rejected. A detailed plan for the establishment of a national university was published by Doctor Benjamin Rush of Editate Phis in 1787 or 1780. "Among the subjects of instruction were to be agriculture in all the numerous and extensive branches' and 'those parts of natural philosophy which admit of an application to pariculture ." Such plans, while not accepted, point definitely in the direction of federal grants to higher education. In his first annual message to congress in 1790. Washington suggested that science and literature might be gided by "the institution of a national university." "in 1796 he definitely recommended the establishment of such an institution."

The custom of making land-grants for education began in 4 colonial times and the precedent was built up from year to year. "About 1820 was began the practice of granting to each state, on admission, two townships of saline lands and from three to five per cent. of the net proceeds from the sale of all public lands within its borders. These grants of land and money were in many cases used at least in part for education. By the internal improvement act of 1841, five hundred thousand acros of public lands were given to each state admitted after

L. True. A. C. - A History of Agricultural Soucetion in the United States p. 21

<sup>2.</sup> Robortson - Mossages and Papers of the Presidents Vol. 1, p. 66 5. True, A. C. - A History of Agricultural Modestion in the

United States p. 21

1800 and these grants were devoted to education after 1845. 1850 the swamp land-grant act was passed under which fifteen states received over sixty million acres. In twelve states a part or all of the proceeds from the sale of these lands was given to education.

The ordinance of 1785 contained a clause reserving from sale "lot No. 16 of every township for the maintenance of public schools within said township." at the time of the passage of the ordinance the importance of this provision was not recognized, but the precedent which it established was of far reaching importance because it began the policy of using public lands for public education.

In the ordinance of July 13, 1787, which provided governsent for the Northwest Territory the following declaration appeared: "religion, morality, and knowledge being necessary to good government and the happiness of manking, schools and the means of education shall forever be encouraged." This ordinance was immediately followed by that of July 25, 1787 which provided for the sale of public lands in Ohio. and provided that section 16 of each township should be reserved for the maintenance of public schools and not more than two townships were to be reserved for the establishment of a university.

<sup>2.</sup> Laws of the United States of America 1789-1815, Vol I Chap. 52 1. True, A. C. - A History of Agricultural Hauestion in the

<sup>3.</sup> True, A. C. - A History of Agricultural Education in the inited States p. 20

<sup>4.</sup> IDId. p. 20-21

<sup>5.</sup> Ibid. p. 21

The significance of these acts was not appreciated by either Congress or the people in general, perhaps because of the Constitutional Convention then in sension, which removed a great deal of interest from the old Continental Congress. "Congress granted lands for schools to Onio when it became a state in 1802 and for a university in 1803. Similar grants of land for educational purposes were made by Congress from time to time to the territories and states formed in the Northwest Territory and beginning with 1903 in Tennesseo to the new states in the South and 1 west."

The more important forces which originally influenced Congress in making reservations of school lands may be summarized as follows: (1) the procedents established by the american colonies and by such a state as Georgia, of reserving lands for schools in newly surveyed territory; (2) the need of selling the western lands; (5) the desire to make western immigration attractive; and (4) interest in the cause of education."

The discussion up to this point has dealt largely with general trands in the educational system of the United States for the purpose of indicating the establishment of the concept that education is a function of government, and to trace the origin and development of the practice of granting public lands for the support of education. The functions of education as in-

<sup>1.</sup> True, A. C. - A Ristory of Apricultural ... uestion in the

<sup>2.</sup> Swift, Fletcher Harper - Federal and State Policies in Public School Finance in the United States p. 13

cidently outlined have been powerful in shaping the course of study as education has become a state function.

Colleges as first organized in this country followed very largely the traditional pattern of European institutions in the matter of curriculum. The formal study of language held an important place and utility was fromed upon by educators. Higher education was admittedly for the few. Only those wishing to enter the "learned professions" of law, medicine, and the ministry were effered the opportunities of college training. education being doomed unnecessary for the sons of farmers and mochanics.

The so early colleges were very efficient in the work which they undertook, but broad minded neople could see that although the liberal arts were valuable they were by no means the only important phases of education. Franklin was conscious of the need for a broader instruction, for in 1749 in his proposal for an academy in Philadelphia, he recommended a liberal course of study and even proposed that "a little gardening, planting, grafting, and innoculation be taught and practiced and now and then excursions be made to the neighboring plantations of the best farmers." The University of Pennsylvania, which developed out of the goademy established at this time, offered in its first carriculum, in 1754, a course in the chemistry of agriculsuch a subject was looked upon by many of the educators ture.

I. Prue, A. C. - A Mintery of Agricultural Manuation in the United States p. 19 ε. Ibid. p. 19

of the time as unfit for college instruction, but its incorporation in the course of study worked the beginning of a movement water was to replace language by science as the basis of higher education.

published in 1787 or 1788, advocated that among the subjects of instruction should be agriculture and the sciences pertaining to it, but no action was taken in the matter. In spite of the attempts to liberalize higher caucation it remained much as before, the monopoly of the Kew, conservative and "clasical" in its nature, scorning of the practical, and entirely outside the interests and grasp of the masses. Only through a consistent struggle was the desired result accomplished and then to a large extent through government aid in the form of land grants made possible by the passage of the Morrill Act of 1862. A brief discussion of this movement is necessary at this point.

#### The Morrill Act

Jonathan Baldwin Turner of Illinois became a strong acrocate of improved educational opportunities for the working classes. In this connection he stated, "It is said the farmers and mechanics do not, and will not, read; but I say give them the literature and the education suited to their wants and see if it does not reform and improve them as it has reformed and improved their professional brethern. The agricultural classes

I. True, A. C. - A History of Apricultural Naucation in the United States p. 21

have no practical congenial literature." Turner was a personal friend of Lincoln and as young men they discussed this problem at intervals between lessons while Turner was teaching the future president the elements of mathematics.

Turner worked out an elaborate plan for an industrial university based upon the belief that "all civilized society is, necessarily, divided into two distinct co-sperative, not antagonistic, classes. A small class, whose proper business is to teach the true principles of religion, law, medicine, science, art, and literature, and a much larger class who are engaged in some form of 1 bor, commerce, and the arts." He believed that the professional classes already had ample educational institutions while there were practically none for the industrial classes. He contended that this large class of society wanted and should be granted like facilities "for understanding the true philosophy, the science, and art of their several pursuits (their life's business) and of efficiently applying existing knowledge thereto and widening its domain."

Turner's idea of the purposes of industrial education is further clarified by the following quotation: He believed that the industrial classes should have a Saystem of liberal education for their own class, and adapted to their own pursuits; to create

<sup>1.</sup> Davenport, Mugene - History of Collegiate Maucation in Agriculture. (Requote from True, A. C. - A History of Agricultural E ucation in the United States p. 84)

<sup>2.</sup> True, A. C. - A History of Agricultural Education in the United States p. 84

<sup>5.</sup> James, E. J. - The Origin of the Land-Grant act of 1862 p. 11 (Requote from True, A. C. - A History of Apricultural Mancation in the United States p. 85)

<sup>4.</sup> True, A. C. - A Algiory of Agricultural E ugation in the United States p. 85

for them an industrial Literature, adapted to their prefessional wants, to reise up for them teachers and lectures, for subordinate institutes, and to elevate team, their pursuits, and their posterity to that relative position in human society for which God designed them."

Turner's activities resulted in the establishment of the Ellinois industrial University. and aroused such interest throughout the country in insustrial education.

It is claimed by Mrs. Mary Carriel, Turner's anughter, in her biography of her father, that Turner sent all his accuments to Mr. Morrill urging his to introduce a bill into Congress. Bert C. Posell in his Semicentennial History of the University of Illinois substantially confirms the statement, but Forrill has in no place acknowledged receipt of such documents. — Be that as it may, it is probable that Corrill know of the work of Turner and was influenced by it in spite of the fact that he continually asserted that he did not know where he received the idea which was embodied in the act which bears his name.

on Pobruary 28, 1856, during the first session of the thirtyfourth Congress: "That the committee on agriculture be requested to inquire into the expediency of establishing one or
more national agricultural schools upon the basis of the naval

a. ibid. p. 94

<sup>1.</sup> James, &. J. - Origin of Land-Grant Act of 1862 p. 11
(True, A. C. A History of Agricultural Education in the United States p. 85.)

<sup>2.</sup> True, A. C. A History of Asricultured Education in the United States p. 86

and military schools, in order that one scholar from each congressional district and two from each state at large may receive a scientific practical education at the public expense." Ar.

Keitt of South Carolina objected to the resolution and it was not received.

the House of Representatives, December 14, 1857. It was entitled "A Bill Denating Public Lands to the Several States and Territories Which May Provide Colleges For the Benefit of Agriculture and Mechanic Arts." The bill was ammended and after a hard fight was passed by both houses of Congress and Cent to President Buchanan, who returned it with a voto message, February 26, 1859.

atives becember 16, 1861, but it was reported adversely by the committee on public lands to which it had been referred. A similar bill was introduced in the Senate May 2, 1862 by senator sade. The bill, after being smended, passed in the Senate and was sent to the House, where through the efforts of Merrill, it came to a vote June 17 and was passed by a large majority.

day that the army of the Potomac began Its retreat after the disasterous battle of Malvern Hill. After a long struggle, the college land-grant bill had become a law. The set of 1862 was

<sup>1.</sup> Prue, A. C. - A History of Agricultural Education in the United States p. 97

<sup>2.</sup> ibid. p. 99

<sup>5.</sup> Ibid. p. 105

<sup>4.</sup> Ibid. p. 106

practically the same as the measure of 1867, with the important differences of the "omission of ferritories, the increase of the land-grant for each member of Congress from 20,000 to 50,-000 acres, the exclusion of the benefits to states while in the act of rebellion, and the requirement to teach military is tactics." The passage of the Borrill act was the culmination of a ling movement for agricultural and technical schools. The is as involved in the measure sero no doubt obtained from a large number of sources and was made possible by precedents the origin and development of which have been out-

mined, to very large degree, by the interpretation placed upon the organic act of 1862. The propent broad veryings of these institutions has been made possible only through a liberal interpretation of the act. The act provides for a "liberal and practical education of the industrial classes in the several pursuits and professions of life," which gives ample justification for the breadth which these institutions have assumed.

the act than its author. At a colebration at the Massachusetts Agricultural College, June 21, 1887, Mr. Morrill spoke in part as follows: "The land-grant colleges were

<sup>1.</sup> True, A. U. - A Blatory of agricultural Education in the United States p. 106

founded on the idea that a higher and broader education should be placed in every state within the reach of those whose destiny assigned them to, or may have the courage to choose industrial vocations where the wealth of nations is produced; where advanced civilization unfolds its comforts and where a much larger number of its people need wider educational advantages and impatiently await their possession.

"The design was to open the door to a liberal education to this large class and to tempt them by offering not only sound literary instruction, but something more applicable to the productive employment of life. It would be a mistake to suppose that every student should become either a farmer or a mechanic, when the design comprehended not only instruction for those who hold the plow or follow a trade, but such instruction as any person might need with the world all before them to choose and without the exclusion of those who might profer to adhere to the classics."

In an address before the House of Representatives of the State of Vermont, in defense of the University of Vermont and the State Agricultural College, at Montpeller, Vermont, October 10, 1888, Ar. Morrill made the following enlightening state and regarding the intent of the Land-Grant Act:

"Meatever class might be done under the national law of 1862, scientific and classical studies, as already stated were

i. Morrial Justin S. - An Address Selivered at the Hassachusetts agricultural Sollege June 21. 1887, on the 25th anniversayy of the passage of the Morrill Land-Grant Act. (Requoted from True, A. C. - A history of Agricultural Education in the United States p. 108.

not to be excluded, were, therefore, to be preserved, and this is set forth at the very starting point, but the national bounty sot brought to the front 'branches of learning related to agriculture and the mechanic arts'--learning in the broad fields of the practical sciences, and none are broader than those related to agriculture. The useful was to have greater prominence in the eyes of students as it will have in their after life and not stand unequal and s ampraced even in the presence of ancient literature. military tactics were also to be included, not werely as a healthful physical exercise, but as a valuable incluental acquirement for all young men with patriotic blook in their veins, and upon whom our country must rely as ever resdy to stand among its future guardings and defenders. The fundsmental idea was to offer an opportunity in every state for a liberal and larger education to larger numbers, not merely to those destined to sedentary professions, but to those such needing higher instruction for the world's business. for the industrial pursuits and professions of life."

The Bureau of sincation reported that The First west felt in the establishent of this class of schools was the education of men of science to man them, but the first purpose for which they were established was the instructation of able educated trustworthy technol gists, such as well informed engineers, architects, miners, agriculturalists, and

I. Forrill, J. s. - State Aid to the Emd-Grant Colleges.

An address in behalf of the University of versiont and the state agricultural College, delivered in the Eall of the nouse of apprecentatives, at Contpelier, October 10. 1888 p. 24 (Requoted from True, A. C. - p. 108

the like, for which the country was at that time loudly calling."

that the several states might use it to the best advantage.
For this a wide latitude of use was necessary. The general wants and local conditions were very different in the different states and for the best use of this fund there must be a great variety allowed in the details, although all the colleges should have the same spirit. He expected the schools of science rather than clas leal colleges....But in all he wished as a prominent feature the 'uneful sciences' to be taught..... he thought that at least one college in every state should teach military science."

similar views regarding the purposes of the forrill set saved the land-grant colleges from an existence as more trade schools, and made it possible for them, under broad minded leadership, to develop into scientific colleges of a very high type, in which the so called 'cultural' studies were not excluded. This type of school makes it possible for men to be trained technically in the sciences and practical pursuits of life, and at the base that to gain a decirable knowledge of art and literature. Encodes of the system have continually attempted to restrict the offer-

<sup>1.</sup> Pearson, P. A. - The Place of Sectionic arts in Land-Grant institutions p. 135 (Requoted from True, A. C. A history of Asrlowitural Education in the United States p. 109)

2. Brower, S. H. - Hanuscript of statement of the Intent of the Land-Grant set of 1862 (Requoted from True, A. C. A History of Againstitural Education in the United States p. 107)

ings of the colleges, but the clear interpretations and the broad terms of the original act have acted as sofeguards to the system.

The development of the system as a whole will be brought in incidentally as it exerted an influence upon the Utah institution.

## ENTARE ISHLEME OF THE UTAL AGRICULTURA, COLLEGE

In acceptance of the conditions of the federal enactment of July 3. 1862, which provided for the donation of lands to the several states and territories which might provide colleges for the benefit of agriculture and the medianic arts, the Agricultural College of Utah was organized by an enactment of the Territorial Logislature which was approved March 8. 1868.

The act of March 8, 1838 provided for the appropriation of twenty-five thousand dollars (\$25,000) for the construction of a college building. It also provided for the appointment of a board of trustees who were made responsible to the legislature for complete consuct of the advants of the college and the experiment station, which was established in connection with it. The trustees were authorized to locate the college on any appropriate site to be selected in Cache Sounty, and to organize a course of instruction as outlined in the act.

In compliance with the provisions of the act to establish the Agricultural College and an experient station, the board of trustees, created by that act, met in Loran June 29, 1888, for the surpose of organizing and communing their official duties. Governor Caleb 8. West

<sup>1.</sup> Blannial Report of the Board of Trustees (gricultural College of Utah 1891 p. 1 agricultural college of Utah Catalogue 1988-85 p. 25
2. Betional and Territorial Lews Helating to the Agricultural College of Utah p. 5 (Bulletin)

was elected president of the board, James T. Hammond, superintendent, and John T. Caine Jr., secretary. The Board of
Trustees after organizing took under advisement the matter of
selecting a site for the college. Governor mest stated that
he understood at the time of signing the bill that land for
the site of the college was to be donated by Cache County and
Logan Sity, and that inasmuch as the twenty-five thousand
dollars (\$25,000) appropriated by the legislature would be
required for building purposes, he proposed, and it was
carried, that Mr. Hammons should present the matter to the
county court and the city council to determine their intentions.

The question of the constion of a site for the college was duly presented to the city and county officials by Er. Hamsond, and committees were appointed to investigate the matter and make recommendations. The committees found it difficult to locate a suitable tract of land, sufficient for the purpose and within the price which was thought could be afforded, and therefore no definite arrangements were made during the year 1888.

The Board of Trustees was notified by Er. Hammond, in March 1869, that two sites had been selected for their approval. The Board met March 26, and after visiting both of the proposed sites decided to locate the college upon the second flat north-east of logan City. The site consisted

<sup>1.</sup> Blennial Report of the Board of Trustees Agricultural College of Utah 1890 p. 1-2
2. Ibid. p. 2

of minety-two across of land, which was soon after purchased by Cache County and Logar City and turned over to the Board of Trusteez.

At the meeting of the Board March 26, 1889, a seal for the college was adopted and the bonds of the secretary and treasurer were approved. It was decided at this meeting to advertise for plans for a college building which should cost \$20,000, and be the main part or one wing of a larger building.

adopt a plan for the college building. After considering the plans submitted, that of C. h. Thompson was accorded. The plans of the south wing of a building which when completed would be two hundred seventy by one hundred feet. The wings were to be two stories high and the main section, three stories, with a basement under the entire structure.

A contract for the construction of the college building was let by the Board of Trustees, Any 18, 1889, at a monting held for that purpose in Salt Make Vity. The successful bidder was sommer, Peterson and Co., of Logan, whose bid was \$20,350. The contract required that the building be completed by Bovember 1, 1869.

In the spring of 1890 the Board of Trustees announced that Professor J. W. Sanborn, who had been appointed director

<sup>1.</sup> Dismiss seport of the Sourd of Frustees Agricultural Soliege of Utah 1890 p. 2

<sup>2.</sup> Ibid.

J. Ibiu.

of the experiment station, and who was to become the first president of the college, was in Utah ready to begin the spring work at the experiment station. The Board reported that Mr. Sanborn was recognized throughout the United States and Europe as one of the most progressive of agricultural investigators. The Board reported further that he was "a gentleman of broad views and liberal culture" and would "with propessupport be the instrument of founding one of the most thorough and progressive agricultural institutions in America".

Because of the fact that the Morrill act of July 2, 1862, mentions agriculture first and because agriculture is the basic industry, many of the land-grant colleges assumed it as their name. Pollowing this procedent the legislature gave the Utah institution the official name of the Agricultural College of 2 Utah.

of students. The faculty of the college consisted of the following members: Joremini w. Sanborn B.S., president and professor of agriculture: Mvert S. Aleman M.S.A., professor of horticulture and botany: William P. Cutter B.S., professor of chemistry; Abbie L. Marlatt B.Sc., domestic economy; Alonzo A. Mills B.Sc. farm superintendent; J. M. Sholl M.M., professor of mechanic arts and mathematics.

<sup>1.</sup> Riennial Report -Board of Trustees of the Agricultural College of Utah 1890 p. 3

<sup>2.</sup> Agricultural College of Utah - Datalogue 1890-1891 p. 6

<sup>5.</sup> Biennial Report - Sound of Trustees of the Egricultural

College of Utah 1891 p. 1 4. Agricultural College of Utah - Catalogue 1890-1891 p. 4

Because of the no-mess of the type of work which the college was undertaking, especially in this region, it was noossary for the trustees to send out of the state for the first faculty members.

The college opened with twenty-two students and during the year the enrollment grew to one hundred thirty-nine (139) of whom one hundred six (106) were males and thirty-three (55) were females.

The offering of the college as amounced in the first catalogue consisted of four regular and three special courses as follows: regular courses (1) agriculture, (2) domestic arts, (3) mechanic arts, (4) civil engineering: opecial courses, (1) a three year course in agriculture (2) a course in irrigation engineering. The last two courses need were graduate courses of one year each. A two year commercial course was also scheduled. Only the first two years of the work were taught during the first year because students in the locality were not prepared for the more advanced work. out it was announced that the remainder of the work would be added as the students became prepared for it. The lack of development of the public schools of the state made it necessary to catablish a proparatory department as part of the college in order to fit students who failed in the entrance

<sup>1.</sup> Hemmond, James T. - An Address given in the Auditorium of the Aricultural College of Utch. Earch 6, 1934

of the Agricultural College of Utah, Earch 8, 1934 2. Biennial Report - Board of Trustees of the Agricultural College of Utah 1891 p. 2

<sup>5.</sup> Agricultural College of Utah - Catalogue 1890-1891 p. 13

examinations, for work in the college. The facts mentioned here regarding the first faculty, enrollment, and curriculum will be discussed in more detail in the following section.

The "national act donating money to agricultural colleges".

which was approved august 50, 1890, brought opportune assistance to the struggling young college and made it possible to enlarge the offering and increase the equipment of the school.

<sup>1.</sup> Agricultural College of Utan - Catalogue 1890-1891 p. 13
2. National Act Consting Money to Agricultural Colleges.
(Public - No. 249) Approved August 30, 1890. SeeNational and Territorial Laws Helating to the Agricultural College of Utah p. 13

<sup>3.</sup> Blennial Report of the Board of Trustees of the agricultural College of Utab. 1891 p. 1

### DE MODULION OF THE CURA COMB

Almo and Eurposes of the College

the influence which was exerted upon the college by
the educational thinkers presented in the first part of
this discussion is clearly indicated by the following stated
also of the college: "The law states the mission of the
colleges to be the teaching of 'men branches of learning
as relate to agriculture and the one made arts'......

A older purpose case within the purview of the statutes,
as obtained in the following quotation from them: 'n
order to promote the liberal and practical education of the
industrial classes in the several persuits and provessions
if life'."

quotations from the national last: 'and the interest of which shall be invisiblely appropriated by each state, which shall be invisiblely appropriated by each state, which shall be invisiblely appropriated by each state, which say take and class the benefit of this act, to the endowment, support and maintenance of at least one college, there the leading objective chall be, without excluding other scientific and classical studies, and including military faction, to teach such branches of leading as are related to agriculture and the mechanic arts......

in order to promote the liberal and practical edge tion of the industrial classes in the several pursuits and pro-

L. agricultural vollege of Utan - Catalague 1890-1891 p. 7

carry out the broad policy of its founders. First and primarily it 'will teach such branches of learning as relate to agriculture and two accounts arts. The former being in the thought of socrates the mother and surse of all other industries will receive special attention."

The wealth and variety of Stah's mineral resources anapted to the arts, are such that the college will fall for short of its cuty if it does not give a zealous and earnest attention to meet only arts and to civil engineering. The young women of the territory attenting the college will be gut on equal footing with the young sen in obtaining a special education for their sphere in life."

"Its glass are those: to make education democratic.

the poor boy has equal opportunity with the rich; to

comphasize most those limes on t give occupation to the

grostest number, for if we need ten farmers to one lawyer,

it may be advisable to spend ten times as much to train

farmers: to educate for today and tomorrow not for yester
day; to dignify all noce many puramits."

"The dominating spirit of the Agricultural College of Utok is to make the common work of most of the world-the work most men and women ust do-both profitable and pleasant. The atto of the college is labor is life."

<sup>1.</sup> Agricultural College of Utah - Catalogue 1890-1891 p. 8 2. Agricultural College of Utah Bulletin Vol. 16. No. 2 p.

<sup>3.</sup> Agricultural College of Stah - Catalogue 192 -1925 p. 55

In these expositions on the purposes and uins of the college one can hear echoes of washington's statement that "knowledge is in every country the surest basis of sublic bassiness": of Jefferson's words, "our liberty cas never be safe but in the hands of the people themselves, and that, too, of the people with a certain degree of instruction:" of Madison's belief that "the best service that can be rendered to a country next to giving it liberty. is in diffusing the mental improvement equally essential to the preservation and enjoyment of that blessing:" of Frankin's proposal to introduce agricultural atomics into the ourriculum of Philadelphia Academy; of Jonathan Baldwin Turner's appeal for education salted to the needs of the industrial clauses, and of course, the views of Justin s. Morrill in both the aut itself and his interpretation of it.

From the stated glas it is also evident that gariculture was to be given the most prominent place in the course of study of the college and that mechanics and the domestic studies would also be atroughly emphanised. while the other brancing of learning were to be secondary that receive attention only as they contributed to the stressed studies or supplied elecents which were felt to be necessary in making

<sup>1.</sup> Robertson - Sesses a and Papers of the Presidents Vol. I p.60 doe pege & of this thesis.

<sup>2.</sup> Conroe, Paul - Rext Book in the History of Amention p. 715 o. Ibid. p. 714 See page 9 of this thesis.

<sup>4.</sup> True, A. C. - A Elstory of Asricultural Education in the United States p. 19 See page 15 of this thesis.
5. Ibid. p. 85. See pages 16-18 of this thesis.

<sup>6.</sup> See pages 18-24 of this thesis

the education "liberal". Keeping in mind the fact that the college was new and very limited in resources, one would not expect to find a very broad offering during the early years.

The First Course of Study

The course of study as presented in the datalogue for 1890-1891 was as follows:

Reguler four year courses

- "L. G urse in acriculture
  - 2. Curse in domestic art
    - o. Course in mechanic arts
- 4. Course in civil engineering."

  Special courses
- "1. Three your course in agriculture
  - 2. Course in mining engineering
  - 3. (Course in) irrigation engineering "

The courses in mining and irrigation engineering were to be post graduate courses of one year each. A two year business course was also senduled. In view of the fact that few students in the region has received privious instruction of the auture offered, the officials of the cutlege felt that it would not be advisable to offer advanced work until the college had trained students for it. Consequently only two years ork was offered the first year with the assurance that the remaining work would be

<sup>2.</sup> Diennial keport of the Sound of Trustees Agricultural College of Utah 1891 p. 2

added as students were prepared for it.

The actual classes as taught during the first year sere as follows:

Algebra Snalish Siterature Penmanahin

arithmetic (higher) Slocution and Regaing Physical Geography

Arithmetic French

Folitical Sconomy

Book-keeping

Goraga

de toric

Unvil Government

Grammar

Seving

Cooking

Grammer (higher)

Shop work - iron

Drawing

history

Shop Work - Wood

#### Morticulturo

It would seem from this that the expectation aroused by the provious statements of what was to be taught were not entirely correct. Although degree courses were offered only in the industrial fields yet a large amount of weight was placed upon the so-called classical studies.

The nature of the work done by the college in the early years is further clarified by a study of the four year course in agriculture first offered by the college, which follows in full.

Fredman Yoar

First Germ

Commonition and Enetoric

differ Aritumtic

Enysics

Shop work and Military science

<sup>1.</sup> agricultural Callege of Stan - sataligue 1890-91 p. 29

<sup>8.</sup> Ibid. p. 15

<sup>0.</sup> bid. p. 15

## Second form

Marlion

algebra

Physics

Fractice in Physics Aboratory

Third Toru

inglish discretize

algebra

Trigonometry

Good try

shop work and Military Wrill

sondomore Year

First Porm

corticulture

Chemiatry

German or French

horticultural cork

Shop Practice

Second Term

Hortleulture

agricultural violaistry

German or French

book-keeping

Chemiatry Laboracory

Tird Tora

corticulture

Forestry

Bee Keeping

otany

Gorman or French

Geometry

Industrials

Junior Year

First Torm

Agriculture

no tany

incrology and deology

conanical brawing

ara ork

Socond Term

Geology and Lithology

Bo tany

Physiol gy

Soboratory Proctice in Botany

Tird form

Gool gy

Agriculture

Surveying

antomology

Para Bork

Sonior Year

First Term

agriculture

Veterinary science

## logic

adical science

Jaka adra

second Trm

Veterinery Science

Apriculture

Political Moonomy

astronomy

Leboratory ork

Tird Torn

agriculture

Votorinary Joionco

U. S. Constitution

optional stray

the rule in the early pours of the land-grant colleges.

Saucation in the scientific and technical fields had received scant attention before the work was undertaken by these schools and as a result the body of systematized knowledge was small am scoke suitable for college study were very few. It became necessary therefore for the professors in the early schools to systematize their field and learn with the classes they taght as research work was carried on. This condition carried over into the

<sup>1.</sup> Thompson, W. O. - The Spirit of the Lend-Grant Institutions p. 57. An address delivered at the forty-fifty annual-Convention of the association of fand-Grant Colleges and Universities at Chicago, Illinois, November 16-18, 1951.

2. Byron, E. A. - The Spirit of Jand-Grand Institutions p. 49

<sup>(</sup>Balletin) 5. Thompson. W. O. - The spirit of Land-Grant institutions p. 57

of Utah, but after the passage of the Eatch act warch 2, 1887, authorizing and endowing experiment stations in connection with the arrivaltural College, the work progressed one more rapidly and the knowledge of agriculture was enormously increased and made available to such an extent that tournical work bould to taught in the various branches of agriculture. This condition will be noted more fully later.

## The Preparatory Department

The terms of admission to the college were laid down as follows in the Territorial Magislative act of March 8, 1888, which established the college:

"Sec. 15. No student shall be admitted to the institution who has not attained the age of fifteen years, and who does not pass a satisfactory examination in arithmetic, geography, grammar, reading, spelling, and genmanship."

of the state, a preparatory department of one year was organized in 1890 at the opening of the college, for the purpose of preparing students she were unable to pass the entrance examinations for regular college work. The age requirement of fifteen years was suspended for the preparatory department, and the only requirement was that "students must furnish for

<sup>1.</sup> True, A. C. - A Ristory of Agricultural Education in the United States p. 108

<sup>2.</sup> Thompson, W. O. - The Spirit of the lend-Great Institutions p. 57 (Bull-tin)

<sup>5.</sup> Territorial act of deron 8. 1868. Organizing the egricultural college of Stab. Sec. 15. Catalogue of Agricultural college of Stab 1890-91 p. 27

<sup>4.</sup> Apricultural college of Stah - Satalogue 1890-91 p. 19

entrance to both the preparatory department and the college courses, when required, evidence of good moral character."

Inasmor as the secondary school gystem of the state was undeveloped, the college of necessity could require no more than an elementary school training for admission to its courses, and the preparatory department as organized was definitely on the otementary level.

A comperison of the college as first organized with the secondary schools of today may not be entirely possible. but it is notable that every course as illsted for the first year is now taught on the elementary or secondary level. These facte seem to impleate that the college in 1890 was little more than a secondary school. However, the saturity of the students and the concentration upon the industrial studies probably resulted in a more "finished" product then the present high school graduate. It is also conceivable that the technical courses sere comparable to those of college grade at other colleges at that time. The assumption that the college as organized in 1890 was of accondary level is further borne out by the fact that in subsequent years work of accommany lovel was gradually introduced between the elemintary preparatory department and the college course until finally four years of secondary work were required and placed in the hands of the high schools.

<sup>1.</sup> Apricultural college of Utah - catalogue 1890-91 p. 27
2. Biennial Apport of the Board of Trustees of the

Apricultural College of Utah 1891 p. J. See p. 35
3. Ibid. 1901-02 p. 15, 1905-06 p. 13, 1909-10 p. 31, 1911
12 p. 8. Agricultural College of Utah Catalogue 191215 p. 41.

<sup>4.</sup> Agricultures college of Utan Catalogue 1914-15 p. 23

work below college grade. These changes will be treated in full in connection with later developments.

The preparatory department was organized because the clementary ochools of the state were poorly developed and it secard necessary for the college to give elementary work to tho c she were unable to pass the entrance examinations in tio closentary branches. it was intended to be temporary. but as time went on the domina for suce work continued. Educational apportunities had been limited during the early history of the state and many men and women who vished higher education dese diffaut the proper foundation. Suc people were too old to attend the regular schools of the state and the college, therefore, assumed the responsibility of preparing them for college entrance. For ten years after the establishment of the college large numbers of atodonis were enrolled in the preparatory or sub-preparatory department as it was called after the introduction of secondary work. but after that tile the number declined until in 1904-05 only thirty-six students registered. At the beginning of the year 1905-06 the course was discontinued.

High School Nork at the College

In 1901 the courses of the college were reorganized.

<sup>1.</sup> Blemial Report of the Board of Trustees of the Agricultural College of Stan 1905-04 p. So. 1905-06 p. 19, 1907-08 p.15. 191-15 p. 19, 1914-16 p. 21.

<sup>2.</sup> agricultural Collage of Utah Catalogue 1890-91 p. 13

<sup>5.</sup> Blennial Report of the Board of Trustees of the Agricultural College of Utah 1905-06 p. 19

<sup>4.</sup> Iblu.

and an additional year was added to the requirements of the baccalaureate courses. This extra year made a total of three years of secondary work and was organized as a regular three year high school. The reorganization raised the standards of the college courses one year and made it possible to place these courses in agricultie, domestic science, commune, engineering, and general science on a co-ordinate basis and draw more clearly the line dividing them from the courses of elementary and secondary grase. In that way "the advanced work of the college was greatly strengthened and improved and the courses leading to the degree were made to correspond more nearly with similar courses in the best land-grant colleges of the country".

The nature of the secondary work at the college after the reorganization in 1901 is summarized in the following statement: "It was thought that the advantages of the college for work in describe scheme, agriculture and science should be brought situan the reach of young son and women who had completed the work of the district schools, but sho were not propared to enter upon the more advanced courses and could remain in college but a few years. Accordingly subjects peculiar to the different courses were introduced in the first year of the three year

I. Blennial Report of the Board of Trustees of the Agricultural College of Utab 1901-02 p. 15 2. Ibid.

courses so that students upon entering the college would begin some of the practical work of the sources taken. The destinctive work of each course was increased and continued through the second and thire years. These courses were also arranged so as to give the necessary preparation for senission to the college courses....."

The necessity for secondary work in the college was explained by President Kerr in his report to the Board of Trustees in 1906, as follows:

"The conditions throughout the state are seek that it will no doubt be necessary for many years to provide at the college for secondary or high second work along industrial lines, such as agriculture, mechanic arts, domestic arts, and commerce. As industrial schools are established in different parts of the state, or better still, so industrial classes are provided in the regular high schools, the work of secondary grade at the college can gradually be eliminated, until elemently the work of this institution may be confined to the regular coarses of college grade."

As more and more students, trained in the high schools of the state, which were rapidly springing up, entered the college it became necessary to readjust the college courses in order that students trained in high schools which did

I. Blonnial Report of the Board of Trustees of the gricultural College of Utah 1901-02 p. 15 2. Thid. 1907-08 p. 19

not teach industrial subjects might enter directly upon collegiate work without loss of time. This readjustment was put into effect in 1907.

## Releing Standeres

Although the college supported a three year igh school course after 1901 it did not require three years of high school work for entrance to the college courses until 1911, as indicated by the following quotation:

"Beginning with 1911-12 the college will require three years of high school work for samination to the four year college courses. Students entering the college from other schools in that year must show credits for three years work in some reputable high school."

An explanation of the raised entrance requirements was given in 1912 as follows:

"A notable departure during the last few years is the raising of the entrance requirements of the college. The institution has always attempt a to meet the specific needs of Stah. In the early history of the college, therefore, it was felt that the entrance requirements should not be so high as to discourage students in a state here the high school system was poorly developed. Then the high schools began to multiply throughout the state, the entrance requirements were raised. This has already resulted in good; though it was unwice to attempt it earlier."

I. Blennial seport of the Bard of Trustees of the Agricultural College of Utah 1907-08 p. 15

<sup>2.</sup> ibia. 1901-02 p. 15

<sup>3.</sup> gricultural college of Utab Catalogue 1909-10 p. 51

<sup>4.</sup> Blennial hoport of the board of trustees 1911-12 p. 6

The fourth year's work was added to the college high school, but the secondary schools of the state were rapidly increasing in number and enrollment, which brought an order from the Board of Trusters to eliminate gradually the high school department of the college. The first year high school work was discontinued after the year 1912-15 and both the first and second years were discontinued after 1913-14.

In 1914-15 the third and fourth years of high school work were taught but after that the no look below college grade was offered except special vocational courses designed to be short and practical.

ments of the college were raised one more year, making it necessary for all students entering the college to present evidence of graduation from a standard four year high school or present fifteen (15) units of approved high school work.

This requirement is considered standard and is still maintained. In 1914 the Board of Trustees announced: "Willo on the one hand practical courses have taken the place of the high school, the high standards of our splendid high schools have made it possible to set a high standard for candidacy for the degrees of the college. The so-called standard requirements for entrance and graduation are now

I. granultural vorlege of Otor Catalogue 191 -13 p. 19

<sup>2.</sup> Ibid. 1914-15 p. 21

<sup>5.</sup> Ibid. 1912-15 p. 41

<sup>4.</sup> Ibid. 195 -04 p. 59

in force in the Utah Agricultural College."

Table I of the amendix gives a comparison of the collegiate work of the college and the preparetory, secondary. and the total enrollments. This table indicates that at no time awring the ninetech years from 1895 to 1914 aid the number of statents registered in resular college courses equal the number of students registered in low r courses. and that during no year was the por centage of collegiate students caugh to one third of the entire enrollment. The average per centage of regular college students during the n neteen year period was 14.62. the ner cent. of collegiate students during the years 1895 to 1901 is relatively high. The explanation for this lies in the fact that coring that time the accondary work was not well organized on a acparate basis, and the work classified as collegiate during that poriod was at legat in part accordary. It is probable that none of the work of the college can be classified as collogiate with any degree of accuracy until after the reorganisation which took place in 1901. Table I of the governix gives a View of the envolument situation without eticenting to clee by the students before the reorganization of 1901. Special and vocational students account for the Lacking numbers in table a I and it.

<sup>1.</sup> Menniel Report of the Poard of Trustees of the Agricultural College of Utah 1912-14 p. 6

<sup>2. 300</sup> Table I Appendix

<sup>5.</sup> Blomaial moport of the Board of Trustees of the Agricultural College of Utah 1901-02 p. 16

<sup>4.</sup> Noe Rable II Appendix

In spite of the difficulty in classifying the students of the college auring the early period it is clear that elementary and secondary work was very important during these years, and that the elimination of all work below college grade was a distinct aid in improving the collegiate instruction.

## Summer School Organized

The college organised a summer school in 1905. faculty was given permission to conduct such a session with the understanding that the institution would bear no part of the expense.

In 1918 the college adopted the four quarter system and school was held almost continually during the year. but later the six wook summer according was reverted to with opportunity for continuation after the regular session ended.

in 1924 the first national summer school was organized at the college. Many famous educators were brought in to supplement the resident faculty. The session received wide publicity with the result that a larger enrollment was obtained that summer than had ever before been obtained. and which has never been equaled since. The summer session of 1924 has the distinction of being the only susmer school

<sup>1.</sup> Agricultural College of Utah Catalogue 1914-15 p. 21 2. Biennial Report of the Board of Trustees of the Agricultural College of Utah 1913-14 p. 6

<sup>5.</sup> Ibid. 1903-04 p. 22

<sup>4.</sup> Ibid. 1917-18 p. 6 5. Ibid. 1923-24 p. 10

at which the enrollment was larger than the enrollment of the regular terms of the same year.

the enrollments at the summer session since its organization. These figures indicate that the sum or session has been a very important part of the work of the college, but since it consists of tractically the same course as the regular terms it need by considered no further in this connection.

## Professorships Established

"On July 2, 1900 the Board of Trustees established professorships in , agriculture, dairy and animal husbandry, animal biology, bother, horticulture, entomology, chemistry and minualogy, commutcal economics and bookkeeping, English language and literature, civil engineering, mechanical engineering, domestic arts, history and civiss, mathematics and astronomy, military science and tactics, and physics. By the establishment of professorships a more thorough organization was effected in all the different departments throughout the institution. The professors were thereby placed in charge of and are held responsible for all the mork of their respective departments whether in the advanced or elementary subjects."

The treatment of curricular changes has been general in nature up to this point i. e. these changes have had an

I. See appendix Table II

<sup>2.</sup> Biennial Report of the Board of Trustees of the Agricultural College of Utah 1899-1900 p. 10

effect upon all of the courses and might be said to be vertical changes. In the following pages an attempt will be made to trace the horizontal development of the cursiculum by schools.

## Agriculture

Since the college receives its name from the agricultural industry and since the founders of the college stated that it was their aim to put emphasis upon that study, it is appropriate that agriculture receive first consideration here.

was to organize a four year course in agriculture leading to
the Bacheler's degree. During the interval between the
establishment of the first land-grant college and the founding of the agricultural college of Utah, professors of agriculture and the sciences closely related to it had had an
opportunity to organize what was then known in their respective fields and begin the process of research. The work of
research was greatly facilitated by the passage of the Batch
Experiment Station Act March 2, 1887 just a year before the
establishment of the Agricultural College of Utah. In fact it
is believed by some that without the experiment stations the
courses in agriculture and even the colleges themselves could

<sup>1.</sup> Agricultural College of Utah Catalogue 1890-91 p. 8

<sup>2.</sup> Thompson, W. O. - The Spirit of the Land-Grant Institutions p. 56 (Bulletin)

<sup>5.</sup> True, A. C. - A Bintory of Agricultural Education in the United States p. 108

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# SCHOOL OF AGRICULTURE

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<sup>\*</sup>Transferred to School of Agricultural Engineering.

not have developed as they have even if they had been able to maintain their existence.

The years immediately after the establishment of the Utah land-grant college were therefore coincident with the period of rapid development in the science of agriculture, contributing to the general store of knowledge through the activities of an energetic experiment station staff.

continued to be the only offering of the college in that field until 1907. A desend for more specialized knowledge and the development of a more complete organization of subject matter made it possible to reconstruct the curriculum in such a way that majors could be offered in the divisions of the course.

At the beginning of the school year 1907-08 the old agricultural course was broken up into several distinct courses. The first two years were alike for all agricultural students but the third and fourth years were prescribed according to the desired specialty. Regular courses were offered in agronomy, animal husbandry and dairying, horticulture and entomology, irrigation and drainage, veterinary science, and forestry.

The school of agriculture was organized in 1905 by the Board of Trustees, together with the schools of do-

<sup>1.</sup> Thempson a. U. - The Spirit of the Land-Grant institutions p. 56 (Bulletin)

<sup>2.</sup> Biennial Report of the Board of Brustees of the Agricultural college of Utah 1907-08 p. 15

<sup>5.</sup> Ibid. 1907-00 . 15

<sup>4.</sup> Agricultural College of Utah Catalogue 1908-09 p. 35

mestic science, mechanic arts, and general science, for the purpose of facilitating administration.

Besides the regular four year courses offered by the college after the reogganization of 1907, there was offered a three year manual training course in agriculture, various practical vocational courses, and a course in irrigation ensincering offered in conjunction with the state school of 2 mines.

again shifted. At that time the offering of the school consisted of a short course of two years in general agriculture and four year courses in the following fields: agronomy, horticulture, animal husbandry, and dairying, irrigation and drainage, agricultural chemistry, and economic entomology. The offering of the college was increased in 1913 by the addition of major courses in bacteriology and plant pathology. With the partial restoration of the engineering course and the organization of the school of agricultural engineering in 1911 the course in irrigation and drainage was removed from the school of agricultural engineering in 1911 the school of agricultural engineering where it rightfully belonged.

The agricultural courses were again revised in 1920 at which time dairying became a separate course and botany was

edded to the plant pathology course. In 1920 a course was I. Asrigultural College of Utah Catalogue 1908-09 p. 6

<sup>2.</sup> ibid. p. 36

<sup>3.</sup> Ibid. 1909-10 p. 40

<sup>4.</sup> Ibid. 1915-14 p. 46

<sup>5.</sup> Ibid. 1911-12 p. 42

added in farm management, and given only that year, and in 1925 a course in agricultural economics was added.

A course in mange management was added in 1925. in 1927 a department of forestry and range was established. after many years of preparation the college was able to organize one of the few standard department of forestry in the intermentaln country. The department was organized in el se co-operation with the United States Forest Service, and the college acknowledged indebtedness of R. H. Rutledge. District Forester, and his staff, for valuable advice and assistance in planning the courses and developing the work. The value of such a course had long been recognised but it had been impossible to organize the department before this time. The department of forestry and range was reorganized in 1933 as the school of forestry, under the direction of the dean of the school of agriculture 5
The year 1928 witnessed two important changes in the agricultural offering of the college. These changes consisted of the addition of a course in poultry hasbandry, and the splitting of the course in dairying into a course in dairy husbandry and a course in dairy manufacturing.

By way of summary the following list of major subjects offered by the school of agriculture and forestry for the

achool year 1933-34 is given: agricultural economics. 1. Agricultural College of Utah Catalogue 1920-21 p. 65

<sup>2.</sup> Ibid. 1925-24 p. 50

<sup>3.</sup> Ibid. 1925-26 p. 48
4. Blennial Report of the Board of Trustees of the Agrigultural College of Utah 1926-28 p. 12

<sup>5.</sup> Agricultural College of Utah Catalogue 1935-34 p. 108

<sup>6.</sup> Ibid. 1928-29 p. 36

botany and plant pathology, agricultural bacteriology, botany and plant pathology, agricultural elemistry, de ry husbandry, dairy manufacturing, entomology, forestry and range management, horticulture, pountry husbandry, and veterinary science. It is impractical here to go into the requirements for each of those courses. It is sufficient at this point to state that they are organized on the group elective system, which will be discussed later, and are so organized as to give a thorough training in the specialized field without neglecting a general view of the subject as a whole, and without neglecting a background in the "cultural" studies. The mathod of accomplishing this end will be discussed in connection with the group elective system.

outlined in 1890 with the much expanded offering of the school of agriculture in 1955, gives a very clear picture of the transformation which has come over the college suring the period, and shows a striking evolution without taking into account the vertical development, of the instruction of the college.

#### Home Mconomics

In the first course of study the domestic studies were given second place, and they will be considered in that ordered. The first catalogue of the college (1890-91) stated:

<sup>&</sup>quot;The young women will be placed on an equal footing with the L. Agricultural coalege of Utah catalogue 193,-34 p. 27

<sup>2.</sup> Ibid. See page 85 of this thesis

<sup>5.</sup> Ibid. See page 52 of this thesis

<sup>4.</sup> See page 49 and pages 34-49

<sup>5.</sup> Agricultural Ollege of Utah Catal gue 1890-91 p.13 300 p.34

## SCHOOL OF HOME ECONOMICS

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the young men in obtaining a special education for their sphere of life." For the purpose of giving women "a special education for their sphere of life," the domestic course was organized.

The course in domestic art was general in nature at the time of its organization, as were the other courses offered by the college.

The school of home economics was established in 1905, and has continued as an important part of college ever since.

in 1908 the offering of the school of domestic arts and setence consisted of a three year manual training course in domestic science, and a four year college course in domestic science. The offering in 1911 consisted of a special four year high school course in home economics and a four year college course in domestic art and domestic science. The offering for 1912 remained the come except for the addition of a short practical course.

with the adoption of the group elective system by the college in 1915-14. and the order to eliminate high school work from the college after 1912, the courses in the school of home economics were reconstructed. The reconstructed school offered in 1915-14 a four year college course in

I. Agrioultural College of Utah Catalogue 1890-01 p. 8

<sup>2.</sup> Ibld. p. 13

<sup>5.</sup> Ibid. 1922-25 p. 50

<sup>4.</sup> Ibid. 1908-09 p. 35

<sup>5.</sup> Ibid. 1911-12 p. 42

<sup>6.</sup> Biennial Report of the Board of Trustees of the Agricultural College of Utah 1910-14 p. 5
7. Agricultural College of Utah Catalogue 1912-15 p. 19

home economics with the opportunity to major in foods and dietetics, home semitation, and construction or demostic art.

offered in that year were: textiles and clothing, foods and dietetics, household administration, and institutional management. The courses remained the same until 1921 when 5 the course in institutional management was discontinued.

For the ten years from 1921 to 1931 the school of home economics offered major courses in foods and dietetics, textiles and clothing, and household administration, but beginning with the year 1931-32 the course in household administration was discontinued and in keeping with the new trend in home economics a department of child development and parental education, with a nursery school in connection, was established.

It is felt that the school of home economics as now organized is well adapted to the needs of the state, and is an evolution from the trials of earlier years.

Englicoring and Mechanic arts

fied history in the agricultural College of Utah, and it is difficult to follow all changes, but the important developments will be followed as closely as possible.

The land-grant institutions were designed to be colleges for the industrial classes, and much emphasis was placed upon

<sup>1.</sup> Agricultural College of Utan Catalogue 1915-14 p. 46

<sup>2.</sup> Ibid. 1910-19 p. 50

<sup>5.</sup> Ibid. 1921-22 5. 54

<sup>4.</sup> Ibid. 1931-32 p. 53

<sup>5.</sup> Ibid.

## ENGTHERDING AND MECHANIC ASSE

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the mechanical subjects. The mochanic arts were considered co-ordinate with agriculture and some institutions combined the two in the name of the college. The federal law of 1862 stated that the purpose of the land-grant colleges was "to teach such branches of learning as are related to agriculture and the mechanic arts.... in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life." Inasmuch as it was the policy of the Utah Agricultural College to "carry out the broad policy of its founders....to the full extent of its resources ..... it is natural that mechanic arts should have been given an important place in the curriculum.

During the period from 1862 to 1880 the science of engineering had developed out of a scattered mechanical knowledge. The land-grant colleges were instrumental in this development and descrive such credit for the result.

Two of the four courses offered the first year (1890-91) by the college were mechanic arts and civil engineering.

The courses in mechanic arts were made very practical and remined on the vocational level until 1912. school of mechanic arts was established in 1903 by the In 1907 the offering of the school con-Board of Trustees.

I. True, A. C. . A distory of Agricultural Saucation in the

E. Montana, New Moxico, South Dakota, Virginia, Oklahoma S. Morrill Act of July 8, 1862.

<sup>4.</sup> Agricultural College of Uton Catal que 1890-91

<sup>5.</sup> Kerr. W. J. - The spirit of hand-Great inscitutions p. 13

<sup>6.</sup> Agricultural College of Utah Catalogue 1890-91 p. 13

<sup>7.</sup> Ibid. 1915-14 p. 46

<sup>1922-23</sup> p. 54 8. Ibia.

sisted of a four year manual training course which might lead to carpentry, forging, machine work, or other trades.

In 1911 the four year course in mechanic arts was placed on a high school basis, and in 1912 a college course in mechanic arts was organized as well as a short vocational course. The high school course was eliminated in 1915 with the elimination of the other secondary work in the college, and majors were offered in woodwork, iron work, and machine work.

mained practically the same, but in 1921 courses were offered in mechanical drawing, auto work, and technology of
mechanic arts in addition to the courses given previously
in woodwork, machine work, and iron work. In 1927
mechanic arts was made a department in the school of
ongineering.

in the curriculum of the college from its beginning, was a climinated from the course of study by state law in 1906. This restriction crippled the work of the college especially in engineering work related to agriculture. Courses were offered jointly with the State Schoole of Mines at the

University, in irrigation engineering, but the arrange-1. Agricultural College of Utah Catalogue 1911-12 p. 42

<sup>2.</sup> Ibid. 1912-15 p. 48

ö. Ibid. 1915-14 p. 46

<sup>4.</sup> Ibid. 1921-22 p. 54

<sup>5.</sup> Ibid. 1927-28 p. 36

<sup>6.</sup> Blonnial Report of the Board of Trustees 1905-06 p. 20

<sup>7.</sup> Agricultural College of Utah Catalogue 1908-09 p. 55

<sup>8.</sup> Ibid.

ment was not satisfactory. By an act of the State Legislature in 1911 agricultural Engineering was restored to the college, and courses were offered again in that line of work, but the restrictions remained on the other departments of engineering instruction.

The school of agricultural engineering was organized in 1911 to take care of the courses restored by the legislative act of that year. The school as then organized offered four year college courses in irrigation and drainage, road building, hydraulics, and the construction of farm buildings.

The agricultural engineering courses were reorganized in 1912 in such a way that the offering of the school was as follows: a four year college course in irrigation and drainage, farm mechanics, agricultural surveying, roads, rural architecture, rural sanitation, and agricultural technology. The course in agricultural technology was discontinued after 4 1920, and the name of the course in roads was changed to highway engineering in 1924, but otherwise the offering of the school remained the same until 1927.

The Course of Study Act of 1927 will be discussed fully later in relation to the college as a whole, but it should be noted here that the act authorized among other things the establishment of a school of engineering, which meant the

removal of restrictions from the field of civil engineering.

1. Agricultural College of Utah atalogue 1912-15 p. 19

<sup>2.</sup> Ibid. 1911-12 p. 42

<sup>5.</sup> Ibid. 1912-15 p. 48

<sup>4.</sup> Ibid. 1920-21 p. 55

<sup>5.</sup> Ibid. 1924-25 p. 49

<sup>6.</sup> Ibid. 1927-28 p. 32

With the organisation of the school of engineering in 1927, the school of mechanic arts was discontinued and the work of that school placed under the supervision of the school of engineering. The school of engineering was organized with three departments: civil engineering, agricultural engineering, and mechanic arts. The department of civil engineering offered majors in irrigation and drainage.highway engineering, structural design, and senitation. department of agricultural engineering offered majors in irrigation and drainage. Farm machinery. Farm power, and form structure. The department of mechanic arts had for its goal the training of high school shop teachers, and also offered two year trade courses in machine work, forging, woodwork, auto mechanics, and auto ignition. The college courses in mechanic arts were designed to train auto mechanics. garage foremen, auto electricians, and machine shop foremen as well as high school shop teachers. In 1935 the courses are the same as described above, except for the addition of radio work and an aviation ground echool.

#### Commerce

Commerce, being considered an industrial field, was included in the original course of study of the college at its opening in 1890. The school of commerce and business administration was organized by the Board of Trustees in 1903.

<sup>1.</sup> Apricultural College of Utah Catalogue 1927-28 p. 56

<sup>2.</sup> Ibid. 1928-29 p. 54

<sup>3.</sup> Ibid. 1935-34 p. 41-45 and 201

<sup>4.</sup> Ibid. 1890-91 p. 15

<sup>5.</sup> Ibid. 1922-25 p. 35

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<sup>&</sup>quot;Transferred to School of arts and Science.

The offering of the school of commerce in 1908 consisted of a high school course in commerce and a general four year college course in commerce. in 1911 the school offered two special four year high school courses in commerce, and four year college courses in finance, accounting, and industrial In 1912 a short practical course in commerce menegement. was also offered.

The change of the college to the group elective system in 1913. brought a revision of work in the school of commoree. The offering of the school in 1915-14 was a four year college course with majors in accounting, economics. and political science. in 1914 major courses in seciology and history were also offered by the school of commerce.

In 1917 a major in finance and banking was added, and a major course in marketing and minors in stenorgaphy and typewriting were added in 1918. A major in agricultural economics was added in 1921, and in 1927 history was transforred to the school of arts and science.

The course of study Act of 1927 removed restrictions from the work in bommoroc as well as in other fields and The expanded course as offered mode expansion possible. in 1920 consisted of majors in the follwing: accounting. business saministration, serobandising, advertising and sell-

<sup>1.</sup> Agricultural college of Uten Catalogue 1908-09 p. 35

<sup>2.</sup> Ibid. 1911-12 p. 42

<sup>5.</sup> Ibid. 1918-15 p. 48

<sup>4.</sup> Biomial deport of the Board of Trustees of the Agricultural College of Utah 1915-14 p. 5

<sup>5.</sup> agricultural College of Utah Catalogue 1915-14 p. 46

<sup>6.</sup> Idid. 1914-15 p. 45

<sup>7.</sup> Ibid. 1917-18 p. 58

<sup>8.</sup> Ibid. 1919-20 p. 65 9. Ibid. 1921-22 p. 54

<sup>9.</sup> Thid, 1921-22 p. 54 10. Yid, 1927-28 p. 32

ing. secretarial work, aconomics, political science, sociology, agricultural economics, and marketing. In 1955 the course in advertising and selling was not offered but otherwise the offering of the school of commerce remains the 8 100 ·

### arte and Solence

The Morrill act states that "the leading objective (of the land-grant colleges) shall be without excluding other scientific and classical studies, and including military tactics. to teach such branches of learning as are related to agriculture and the mechanic arts..... in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life. I Hr. Morrill in commenting on the act stated. "Whatever else might be done under the national law of 1862, scientific and classical studies, as already stated were not to be excluded, were, therefore, to be preserved."

In spite of this very definite statement that the scientific and classical stadios were intended to be found in the curriculum of land-great colleges in order to promote the "liberal" education of those attending. these very studies had great difficulty in justifying their existence in the Agricultural College of Utah.

I. Agricultural College of Utah Catalogue 1928-29 p. 47

<sup>2.</sup> Ibia. 1930-34 p. 56

<sup>5.</sup> Ibla. 1890-91 p. 7

<sup>4.</sup> Morrill, J. S. - State Ald to United States Land-Grant Colleges (Requoted from True, A. C. - A History of agricultural Education in the United States

# SCHOOL OF ARTS AND SCIENCE

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<sup>1.</sup> Transferred to the School of Commerce. 2. Transferred to the School of Education.

Was intended that every student should become either a farmer or a mechanic, when the design comprehended not only instruction for those who held the plow or fellow a trade, but such instruction as any p raon might need—with 'the world all before them to choose'— and without the exclusion of those who might prefer to adhere to the classics." Yet in spite of this the agricultural College of Utah had to give battle continually for many years against the idea that land-grant institutions were intended to be trade schools in a restricted sense, and therefore had no right to offer scientific or classical studies except as they had a direct bearing on the industrial studies. This feeling however unjustified was a very potent influence and restricted the work of the college for many years.

The school of general science was organized in 1903.
Its scope is explained in the following statement from a report of the Board of Trustees. There are always some students who do not desire to follow any of the regularly arranged courses of instruction offered by the college.
These students prefer to pick and choose from the subjects offered. Such students constitute the school of general science. No special classes of any kind are organized for such students. The classes to which they are assigned are in every case those regularly given in the regular course.

I. Morrill. J. S. - An Address at Massachusetts Agricultural College June 21, 1887. (Requoted from True, A. C. - A History of the Agricultural Maucation in the United States.). 108)

E. Agricultural College of Utah Catalogue 1928-29 p. 31

of instruction. However, there can be no valid reason for refusing such students instruction. For the purpose of more efficient administration the school of general science is maintained. Since it uses only the work of other departments it has no special request to make of the state."

Inassuch as the classes in the arts and sciences were given in their relationship to the industrial studies it was possible for those interested in such fields to secure at least a partial training in their chosen line of work on the plea that no special classes were organized for their benefit, but teaching this type of work for its own sake was out of the question.

clearly presented in the following quotation: "The question becomes acute only in those states where separate land-grant colleges and state universities are maintained as independent institutions. Here the conflicts between university and land-grant college tend to become most troublecome and frequently these difficulties center about expansion of arts and science offerings by the land-grant colleges. These colleges are thought of as strictly technical inetitutions or even more narrowly and mistakenly as strictly agricultural colleges. Since the essential functions of the liberal and scientific elements in technical education

<sup>1.</sup> Monnigh Seport of the Brand of Trustees of the Agricultural College of Utah 1907-08 p. 27

are not very generally understood either by educators or by the public, protests concerning expensive duplication of offerings arises.

"There is no question and there never has been any question that the land-grant university may very properly and is to a certain degree obliged to offer to students opportunities for the general education which it is the purposes of arts and sciences to give."

The question of duplication of work in the Agricultural College and the University became very serious and threatened the very existence of the college, but consolidation of the two schools was not effected, and as time went on both schools became crowded to capacity, leaving no excuse for jealousies and consequently removing many restricting influences from the Agricultural College.

The nature of the restrictions placed upon the Agricultural College is indicated by the Course of Study Act approved March 9, 1911, which follows: "2007. Course of Study in the Agricultural College. The courses of Study in the Agricultural College, until otherwise provided by law, shall comprise agriculture, horticulture, forestry, animal industry, veterinary science, domestic science and art, elementary commerce, elementary surveying, instruction

<sup>1.</sup> Klein, Arthur J. - Survey of Land-Grant Colleges and Universities Vol. II p. 4

<sup>2.</sup> Majerity Report -- University Commission 1906

<sup>3.</sup> Agricultural College of Utah Catalogue 1927-28 p. 32

application as applied to measurement, distribution, and application of vater for agricultural purposes, for which a degree of engineering in agriculture may be given, military science and tactice, history, language, and the various branches of mathematice, physical and natural science and mechanic arts, with special reference to the liberal and practical education of the industrial classes. But the agricultural College shall not give courses in liberal arts, pedagogy, the profession of law or medicine, or engineering, except agricultural engineering."

"At a meeting of the Board of Trustees, held in June 1903, the school of music was formally established. This school has since been organized with a director and five instructors and a course has been arranged in such a way as to afford the students of the institution who are interested in music an opportunity to pursue work under specialists in both vocal and instrumental departments."

That the school of music organized in 1903 was not of full collegiate standing is indicated by the following quotation from a later report of the Board of Trustees:

"The reconstruction of the teaching work on the basis of the group-elective system, includes the full acedemic recognition of art and music. The intolerance of earlier educational ideals has relegated these subjects into an obscurity that

<sup>1.</sup> Agricultural College of Utah Catalogue 1915-16 p. 63
2. Biennial Report of the Board of Trustees of the Agricultural College of Utah 1913-14 p. 6

made them ineligible as major subjects for those who desired to complete a college course. Under the new arrangement, the departments of art and music are lesping forward, and the effect will be to standardise and make more valuable all work in art."

The work in the school of general science, as in the other schools of the college was general in nature during its early years, but as the college grew and division of work took place in other schools, the work of the school of general science was divided into departments of fering major work in the various branches.

In 1895 the college offered a degree course in elective actence and from 1895 to 1904 a general college 4 course in general science.

in 1904-05 the school of general science offered majors in physics, zoology and entomology, geology and mineralogy, chemistry, botany, mathematics, astronomy, English, history, political economy, languages, and political science. Only minor ork was offered in political economy and political science after 1908. In 1911 a major course in physiology and bacteriology was incorporated into the school, and a minor was offered in art. Music was offered as a monor in

I. Blennial Report of the Board of Trustees of the Agricultural College of Utah 1913-14 p. 6

<sup>2.</sup> Idid 1901 -02 p. 22

<sup>3.</sup> Agricultural College of Utah Catalogue 1895-1904

<sup>4.</sup> Ibid.1904-05 p. 52

<sup>5.</sup> Ibid. 1908-09 p. 54

<sup>6.</sup> Ibid.1911-18 p. 63

<sup>7.</sup> Ibia.1912-13 p. 71

and after 1914 as a major. art was accepted as a major subject in 1914.

By 1921 the offering of the school of general science had been greatly enlarged. In that year major courses were offered in art, bacteriology, botany, chemistry, education, English, entomology, foreign languages, geology, history, mathematics, music, physics, physiology, and zoology, and a minor course in library work.

The school of general science was re-named the school of basic arts and science in 1923, and in 1927 the school of arts and science. The Course of Study Law of 1927 authorised the catablishment of the school of education, which automatically removed that line of work from the achool of arts and octence. Courses in public speaking were introduced in 1927. and in 1930 work in bio-chemistry and public health were added.

The offering of the school of arts and science in 1953-54 consists of the following majors: bacteriology and bio-chemistry. chemistry, English, speech, geology, history, mathematics, modern languages, physics, physiology and public health, and gool gy and entomology. Art and music were transferred to the school of education and are listed there in the college catalogue for

<sup>1930-34.</sup> I. Agricultural College of Utah Catalogue 1912-18 p. //

<sup>2.</sup> Ibid. 1914-15 p. 60

<sup>8.</sup> Ibid. 1914-15 p. 60

p. 54 4. Ibid. 1921-22

<sup>5.</sup> Ibid. 1928-29

p. 31

<sup>6.</sup> Ibid. 1927-28 p. 38

p. 36 7. Ibid. 1927-28

<sup>8.</sup> Ibid. 1930-31 p. 32

<sup>9.</sup> Ibid. 1955-54 p. 31

<sup>10.</sup> Ibid. 1935-34 p. 59

### Eduantion

Education courses were considered outside the realm of the agricultural College during the early years of its existence and the law of 1911 explicitly forbade the teach-Consequently no work along this line was ing of pedagogy. offered. The problem of training teachers of agriculture and dom stic arts and science was settled by the following agreement between the University of Utah and the Arricultural College of Utah: "The Agricultural college shall not offer courses in education, but shall advise all students propering to teach to come to the state school of education to receive instruction and training in professional educational subjects. The school of education shall advise all atadents wishing to become special teachers in agriculture, domestic science, or domestic art in high school to go to the State Agricultural College for their technical work of college grade in these subjects."

It is obvious that such an arrangement would work to the disadvantage of the Agricultural college, by allowing it to teach only the technical work in agriculture and home economics to prospective high school teachers, the remainder of the work being left to the University. The growing importance of training high school teachers, and the growing

<sup>1.</sup> Agricultural College of Utah Catalogue 1915-16 p. 63 see page 64 of this thesis

<sup>2.</sup> Ibid 1910-16 p. 64

# SENIOR OF RECOVEROR

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proportion of college graduates who exected to enter that line of work increased the hardship on the agricultural college.

"By 1917 departments of education were in existence in many land-grant institutions, and there were specialists in agricultural education or distinct departments of agricultural education in a number of them. That year the Bureau of Education reported that forty (40) of the agricultural colleges were offering teacher training courses with a definite amount of professional instruction." The Agricultural college of Utah was not among the forty land-grant institutions offering educational work in 1917, and was therefore one of the most backward institutions in this respect. The precedent was present and the need great, but certain forces were preventing the addition of the needed courses.

The passage of the Smith-Hughes Vocational Education Act in 1917 greatly accelerated the work of education in many of the land-grant colleges, but still no education was allowed to be taught in the Utah land-grant college. Not until 1921 was the college authorized to offer work in professional education.

an act of the 1921 legislature required the college to edd education to its course of study, and in fulfillment of this requirement a department of education was established

offering work in psychology and education.

1. True, A. C. - A History of Agricultural Education in the United States p. 291

<sup>3.</sup> Agricultural College of Utah Catalogue 1921-28 p. 61

ment of a school of education at the Agricultural College and removed restrictions from its functioning. The school of education was organized with the following departments: payendlogy, educational a thods and teacher training, physical education and community recreation, and educational sociology. The purpose of the school was stated to be "to prepare teachers in the various subjects taught by the college including the professional or vocational groups such as agriculture, home economics, commerce, and mechanic arts; and the arts and sciences." Training for both elementary and high school teachers was offered. Art and cusic were placed under the school of education in the announcement for 1930.

The functions and importance of the school of education of the Utah Agricultural College are indicated by the following statements from the Utah Educational Survey Commission.

19254 "....the survey commission favors maintenance and extension of teacher training work in the Agricultural College.

This conclusion is based upon the obvious fact that in certain respects the college has facilities and contacts which specially fit it for preparing certain types of teachers.....It seems unwise to handicap the state by refusing to utilize to the fullost extent poscible the capabilities of the Agricultural

<sup>1.</sup> Ble mial Expert of the Board of Trustees of the Agricultural College of Utab 1927-28 p. 11
2. Utah State Agricultural College Catalogue 1930-34 p. 39

College for training teachers in these lin s.

periment station and expension sork in agriculture and home economics lead logically to the training of vocational teachers."

"The close relationship of the Agricultural college to rural life and the understanding of rural conditions and problems which the college may be presumed to command, therefore, make the commission consider carefully also the question of advising extension of its training of clementary-school teachers with special emphasis upon the training of those who expect to teach in rural schools."

Training teachers has influenced the Utah Agricultural College in much the same way as other land-grant colleges have been affected by the procedure. The following statement gives a clear account of the effect of teacher training on agricultural colleges: "The assumption of the duty of training teachers for the secondary schools has effected the agricultural colleges favorably in several ways. It has greatly broadened the interest of college authorities and teachers in problems of agricultural education and the application of pedagogical principles to the teaching of agriculture. It has opened a new vocational outlet for a

I. Utah Mucational Survey 1925 p. 315

<sup>2.</sup> Idid. p. 315

of those colleges. It has given these colleges more prominence in the thought of the pupils in many high schools and brought a considerably number of them to the colleges for long or short courses. It has fundamentally affected the relation of these colleges to the public school system of the several states and made them more fully an essential part of this system. Since the United States has only begun to develop a comprehensive system of vocational education, it may be expected that with the accelerated progress which such education will make, the colleges standing at the head of the agricultural division of this system will have an increasingly important part to play in its development and maintenance."

Many factors have, no doubt, had an influence in producing the phonomenal increase of enrollment at the Utah agricultural College, but it is likely that the training of high school teachers has been responsible at least in part for the 146% increase in collegiate registration between 1921 (the year in which the department of education was organized) and 1933.

# Military Science

The Land-Grant Act of July 2, 1862 expressly stated that military science was to be included in the curriculum

<sup>1.</sup> True, A. C. - A Algeory of Agricultural Education in the United States p. 320

<sup>2.</sup> See Appendix Table II

of colleges organized under the provisions of that set. The Utah institution accepted the responsibility and has continually maintained a military department. In recent years it has been argued by many that it was not intended by the act of 1862 that military training should be compulsory in the land-grant colleges, but rather that it should be an elective study. In this connection it should be remembered that the Norrill but was approved on the same day (July2, 1862) that the army of the Potomeo began its retreat after the disasterous battle at Malvern Hill. It is not reasonable that a Congress so faced by the 111 fortune of war, brought about largely through the poor training of leaders should pass an get making the training of military leaders an optional matter. It should also be remembered that no such thing as an elective course was known in 1862.

In speaking on the intent of the act Mr. Morrill cald, "Military factics were also to be included, not merely as a healthful physical exercise, but as a valuable incidental acquire and for all young men with patriotic blood in their voins, and upon whom our country must rely as ever ready to stand among its future guardians and defenders."

Many changes have taken place in the department of military science but they need not be discussed in detail

here. It is sufficient to state that the department as 1. Asyloultural College of Utah Catalogue 1890-91 p. 2. True, A. C. - A History of Asricultural Education in the United States p. 106

United States p. 106

3. Morrill, J. S. - State Ald to U. S. Land-Grant Colleges
(Mognoted from True, A. C. - A History of Agricultural
Education in the United States p. 108

now organized offers two levels of instruction. (1) the basic course consisting of two years of drill and instruction, required of all able-bodies male stadents not otherwise exempt, and (2) the advanced course of two years to which a limited number of students may be elected by the president of the college and the professor of military science, and which may lead to the commission of second Lieutenant in the officers Reserve Corps of the United States army. Students who have completed the basic course are qualified as non-commissioned officers in the organized reserve, and may be a pointed as such if they so desire. The military unit at the college is organized for instruction in artillary for coast defense. Besides the two courses in military science offered, the department trains a military bank under the direction of the bank instructor.

### Graduate Work

The college issued its first master's degree in 1916.

and since that time graduate work at the college has greatly expanded. The nature of the graduate work of the college is explained by the following quotation from a report of the Board of Trustees: "The experiment station needs well trained assistants who can intelligently do the routine connected with the rescurch. This makes a sciendid opportunity for graduate students to do appropriate work in actual research for which

I. Utah State Agricultural College Catalogue 1900-04 p. 64 and 207

<sup>2.</sup> Utah State Alummi Roll

they can receive credit toward their advanced degree as well as further the work of the station. For this reason our graduate work has not been expensive——— The high quality in the theses demanded and the exacting character of the oral examinations that are given by the committee have kept the standards high. Since research is a major function of the college, and graduate ork is based upon research it is only natural that expansion should take place in this type of work.

The greath in graduate work at the college is indicated by the fact that thirty-one students received the degree of Master of Science in 1985. These students represented five schools of the college, namely: agriculture, home economics, arts and science, commerce, and education.

Course of Study Act of 1927

Most of the legislation pertaining to the curriculum of the college has been discussed as it effected the various divisions of the college, as have other important movements, but for a fuller understanding and an integrated picture it seems advisable to repeat some of the movements with emphasis upon the effects which they exerted upon the college as a whole.

already been mentioned but a fuller discussion is necessary

for a more complete understanding of the present curriculum

1. Biomnial Report of the Board of Trustees of the Agricultural College of Utah 1925-26 p. 13

2. Utah State Agricultural College Catalogue p. 229-232, 1953

of the college. The following interpretation of the act written on request to President E. G. Peterson by the author of the act, Hon. J. W. Peters, does much to explain the act and its purposes.

Brighen Oity. Utah April 22, 1930

President S. G. Peterson

Utah State Agricultural College

Logan, Utah

Dear President Poterson:

I have been extremely busy.

You ask me for a statement interpretative of the bill which bore my name and which passed the 1927 session of the Utah Legislature fixing the courses of study at the Utah Agricultural College.

of study in the Agricultural College shall comprise agriculture, horticulture, forestry, animal industry, veterinary science, domestic science and art, commerce, civil engineering, military science and tactics, mechanic arts and pedagogy, and the various arts and sciences basic to those courses. The Agricultural College may give courses for the preparation of

<sup>1.</sup> Used by persission of President S. G. Peterson (President's office files).

teachers in the foregoing subjects such as to meet the certification requirements of the state Board of Education. But the Agricultural College shall not offer courses in the profession of law, medicine, or engineering, except agricultural and civil engineering, nor shall it sward any degree in liberal arts. The work of the college shall be arranged with special reference to the liberal and practical education of the industrial classes."

The first sentence of the bill enumerates the courses that the college is required to give. Its meaning may appear more clear by assuming the bill to read as follows:

"The courses of study—shall comprise"

- 1. "Agriculture"
- 2. " orticulture"
- 5. "Forestry"
- 4. "Animal Industry"
- 5. "Veterinary Science"
- 6. "Domestic Science and Art"
- 7. "Commerce"
- 8. "Civil Engineering"
- 9. "Military Science and Tactics"
- 10. "Mechanic arts"
- 11. "Pedagogy"
- 12. "And the various arts"

such as: English

History

Language

Meio

Druming

sto. etc.

13. "And Selences"

such as: Chemistry

Geology

Mathematics

Botany

Soology

Etc. etc.

the fact that the bill does not specifically mention
the individual courses to be given under "various arts" such
ast "aglish, History, Languages, etc. does not mean that they
were not of equal importance to the ones mentioned, or were in
any way supplemental to them, but the plain understanding was
that they were to be regarded as being on a parity with those
mentioned. This is true also of the "sciences" under which no
detailed list is given in the bill, such as: Chemistry, Physics,
Mathematics, etc., but which were to be regarded as being courses
within themselves and on a parity with those mentioned.

The law says "the courses of study shall comprise", among other things, "arts and sciences". This makes it mandatory, as I construe it, that art courses such as: English, History, Language, etc., be given and that science courses, such as: Botany, Zoology, pohysics, etc., be given, and that they be of equal importance to the ones montioned. Certainly they are based to the development of rural life. Also, as to the

training of tembers, the law permits the Agricultural College to give courses that will prepare teachers in arts and science as well as in Agriculture, Domestic Science and Art, etc.

My recollection is that I made a statement on the floor of the senate giving the above interpretation to the bill and I cannot now recall that any adverse or different version was urged or suggested.

I trust the above brief statement will be of help to you. With kind regards,

Sincerely yours,

J. H. Peters (Signed)

It is largely through this act and the liberal interpretation given it that it has been possible for the college to broaden its curriculum to the present proportions. Some restrictions still remain on the work of the college but they are in general not closely related to the major activities of the institution and consequently do not interfere with the functioning of the work. In fact it is probably that close definition of the realm of the college leads to greater efficiency in the line of work which should by law and the intent of the founders be stressed. The use made of the Peters act of 1927 has been adequately discussed in connection with the individual schools.

# Group lective System

Mention has been made of the adoption of the group elective system but it has not been defined nor discussed in the form which it took in the reorganization of the

college, and therefore a more complete explanation will follow.

The early imerican colleges were very formal and courses were prescribed in detail leaving no place for the initiative of the student. It was not until the latter end of the nine-teenth century that freedom began to be allowed in the choice of college work. President Eliot is given credit for the elective system and academic freedom, which developed at Harvard University during the seventh decade of the nineteenth century. The free elective system was not entirely satisfactory because of the difficulty of administration, and consequently the departmental or group elective system originated at Cornell University by andrew N. Shite, became more important.

been to adopt the group elective system, but the method of administrating the system has varied rather widely. In the field of agriculture it has been the general rule for students to take as their major work one of the main divisions of agriculture such as agronomy, horticulture, dairying, animal husbandry, rural deconomics, etc. However, some students have preferred to major in subdivisions of these, and care has been necessary in order that the field as a whole should not be lost sight of in the over specialization. The recent trend has been to restrict freedom of choice to some extent in order to prevent the evils of over specialization.

<sup>1.</sup> True, A. C. - A Bistory of Agricultural Education in the United States p. 125-126

<sup>2.</sup> Ibid. p. 307

The following extract is taken from the report of the Board of Trustees for the Bienium 1913-1914: "The most notable onward step in the teaching in residence during the bienium, was the adoption of the group elective system. Students, who ther condidates for degrees or not, are now allowed to select, with the advice of the faculty, their courses of study. Those who are candidates for degrees must include in their work at least a taste of all the great divisions of human knowledge. Under this eyetem. the precious individuality of students is allowed full and free unfolding, and yet the students are compelled to acquire a wide vision of human knowledge.... ." the system is perhaps not so ideal as the above statement would indicate yet it is according to A. C. True, a great improvement on the old hard and fast curriculum in use previously.

As now operative at the college, the group elective system consists of the following:

General Requirements for Graduation

candidates for the bachelor of science degree must meet in full all entrance requirements and present 180 quarter hours of college work as outlined below (exclusive of the required courses in Physical Education or Military Science).

I. Biennial Report of the Board of Trustees of the Agricultural College of Utah 1913-14 p. 5

<sup>2.</sup> True, A. C. - A History of Agricultural Education in the United States p. 125

## The Four Basic Groups

The cambiante and include work in each of the four basic groups as follows:

Language Group: 18 hours (English, Modern Languages, Speech). Such Include English 10, 11, unless excused by the English Department.

Social Science Group: 12 hours (History, Moonomica, Political Science, Sociology).

Biological Science Group: 12 hours (Botany, Zoology, Public Health, Bacteriology, Physiology).

Exact Science Group: 12 hours (Chemistry, Physics, 2 Matsematics, Goology, Accounting 101, 102, 108).

## Sajor Subject

Every student at the time he enters the senior college.

must select a major subject in which at the time of graduation

he must have completed at least 50 quarter hours of work.

The student should consult with the professor in charge of

his major work, and must secure his approval of the proposed

combination of courses.

# Minor Subjects

From eighteen to thirty hours in some field of work closely related to the major subject will be chosen by the candidate with the advice and consent of the major department and the Dean of the School.

Lenglish 10 - Freenman Composition 5 hours. English 11 - Sophomore Composition 4 hours.

<sup>2.</sup> Fundamentals and Problems of Accounting.

### Senior College Work

Fifty-four (54) hours of senior Gallege work taken after the candidate has completed at least 90 hours of work must be presented by each candidate for use B. S. degree."

"The Major Department has the authority to prescribe not less than thirty, nor more than fifty hours of work in the Major Subject (exclusive of any courses which may have been used to satisfy Junior College requirements in any of the four basic groups. The Major Department and the Dean shall also prescribe such other related courses as may be considered desirable, provided always that the students free electives may not be reduced below thirty-six hours."

Subjects in which students may major are given in the discussions of the separate schools. Whose subjects are made large enough that the student may not specialize to such a degree that he loses sight of the subject as a whole.

### Quarter Divisions

Prior to 1918 the college operated on a semester basis, conducting classes for two semisters of eighteen weeks each, credits being counted on the basis of semister hours. In 1918 the quarter system was adopted by the college with the resultant change of credits to quarter hours. The semister hour is equal to one and one-half quarter hours. The regular school term under the quarter system consists of three quarters (Fall, Winter, and Boring) of twelve weeks each. The 1. Utah State Agricultural College Cat Logue 193 -34 p. 30-31

<sup>2.</sup> Ibid. p. 62 3. Ibid. 1919-20 p. 35

summer quarter has been discussed previously.

"The Agricultural College (of Utah) was the first college of its kind in America to adopt the four quarter system of instruction, whereby the college is an practically continuous session throughout the year. This action was approved by the Board of Trustees just prior to the entrance of the United States into the world sar. Since that time and largely as a result of war measures, practically all the calleges of America have adopted the four quarter plan. The plan meets admirably the industrial and economic conditions in Utah and is undoubtedly a permanent arrangement in our school."

## hean of the faculty

was in the creation of the office of Dean of the Faculty.

The office has long been needed as an aid in the standardization of teaching, in effecting economies between departments, and in exercising general supervision of the conduct
of the students. Br. Frank L. Sest, the first to occupy
this position, deserves such an honor by virtue of the contributions he has made to the development of the college in
past years. He was chairman of the committees which conducted
the surveys and analyses which produced the organization of
course of study in the group elective system, the establish-

I. See page 47 of this thesis

<sup>2.</sup> Binnial Report of the Board of Trustees of the Agricultural College of Utah 1917-18 p. 6

and several other fundamental improvements in organization and policy, which other institutions it is interesting to note, adapted to their own use after our successful establishment of the same." Credit is also due President E. G. Peterson and the Board of Trustees for the progressive changes of recent years and the far sighted attitude which has been taken.

### The Extension Service

The work of land-grant colleges is carried on under three divisions-resident instruction, research, and extension. The Smith-Lever Extension Act which provided for the establishment of extension departments in the landgrant colleges was passed by Congress and approved by Presidnet Wilson May 8, 1914. "This measure made possible the combination of all the useful features of extension work in agriculture and home esonomics as carried on by the colleges and the United States Department of Arriculture. and opened the way for a great expansion of such work among our farming people." The establishment of the extension service at the college greatly increased its range of influence and made the facts obtained from the work of the resident college and the experiment station available to large numbers of industrialists in a useable way. thus

<sup>1.</sup> Blennial Report of the Board of Trustees of the Agricultural College of Utah 1921-22 p. 16

<sup>2.</sup> True, A. C. - A History of Agricultural Education in the United States p. 200

<sup>5.</sup> Ibid. p. 201

greatly increasing the value of the work done.

of a great period of devel paent of higher education in this country,.....with a strong and growing organization and with marked public approbation, as shown by the number of students and the provision for the expansion of their functions under the extension and vocational education acts. They were being aran more and more into the general current of the movement for the improvement of higher education and were being impelled to co-operate with the other higher institutions in the study of educational problems and the working out of general plans which affected the interests and welfare of all colleges and universities. To then as to other higher institutions the world war brought an unescapable orisis, followed by a new development of their activities."

The Agricultural College and the World War

educational institutions with federal connections, naturally, played a very important role in the war and post-war programs of the United States. The Utah Agricultural College co-operated with the federal government to the best of its ability in the war and post-war programs. The R. C. T. C. at the college trained 492 young men during 1918-18. During the summer of 1918 six hundred eighty soldier mechanics were

<sup>1.</sup> True, A. C. P A History of Agricultural Education in the United States p. 294

trained by the institution. Seven hundred twenty-four men were given collegiate and vocational military training at the college after the establishment of a unit of the Students army Training Corps, in 1918. Of the former students of the Utah Agricultural College who saw service in the war a large percentage were commissioned.

Besides training men for the war, the college co-operated with the Department of Apriculture and the Food Administration Board to increase the production of food to sumply the army of the United States as to sid the armies of the Allies. The food problem was of the atmost importance in the minning of the war. and the college worked faithfully to increase production throughout the state.

after the dreadful orgy of war had come to an end the country was faced with the problem of returning the thousands of young men in the army to useful positions in peaceful society. A "unique educational enterprise" insugurated by the Y.M.C.A. for the benefit of the American Soldiers in France was later taken over by the Army Educational Commission and the Agricultural Colleges were collect upon for the fulfillment of a part of the program, relating to egricultural education. A large chere in the work of rehabilitating soldiers injused in the war was also intrusted to the Agricultural Colleges. The rehabilitation work was first placed

under the general supervision of the federal Board of Vocat-L. Egricultural college of Utah Catalogue 1910-20 p. 20

ional Education, but in 1921 it was transferred to the Veteran's Bureau.

The rehabilitation work at the agricultural college of Utah is explain d in the following quotation from the report of Professor may 5. Nest, director of Vocational Education for the college in 1919.

"Along with other einilar institutions, the agricultural College of Utah was asked to train disabled men in the various lines of work which we are teaching here. The first cen to arrive came in March 1919, and the number has steadily ingreased from that tile until now we have an errollment of 170 ..... The tuition for these men has made it possible to extend our work this year. which we probably would not have been able to do had it not been for the revenues derived in this way. Besides this, the Federal Board of Vocational Biscation has leaned us approximately \$25 -000 worth of mechine y ...... The Mederal Board at the present time has one man stationed here as co-ordinator to sid us in handling their work. We are offering besides our regular vocational courses, special gourses in the following lines: agriculture majors, animal hasbandry, agronomy, bee culture, and poultry work; highway construction, concrete construction, farm mechanica, sutomobile and tractor work."

<sup>1.</sup> Prue, A. C. - A Mintory of Assignifural Education in the United States o. 239

<sup>2.</sup> Biomial Report of the Boars of trustees of the Agricultural college of High 1919-20 p. 123

The attitude of the college toward this work is indicated by the following statement from the report of the Board of Trustees for the Bienium 1919-1920.

The college is proud of its ability to be of service in re-training hundreds of young men, disabled during the war, for usefulness in one or another trade or industry. Our contact with the Federal Board of Vocational Aducation, Division of webshilitation, provides for full reembursment to the college in this important work in the interest of the years men who, by reason of their heroism and devotion to our country, will always be objects of our cager sympathy."

The college aided in the training of ex-soldiers who had not been injured in service as well as in the rehabilitation work.

The following figures compiled from the catalogues of the college give some indication of the amount of this work, by giving the enrollments of ex-service men in the college from 1925 to 1927.

1925-24	<b>5</b> 0 (	collegiate	66	vocational	
1924-20	21 (	oollegiate	Ö	vocational	
1925-26	9 (	collegiate	2	vocational	
1926-27	***	collegiate			

service suring the agricultural Depression of 1921

great increase in the number of students of agriculture in the

<sup>1.</sup> Bleshibl Report of the Board of Trustees of the Agricultural College of Utah 1919-1920 p. 12
2. Agricultural College of Utah Catalogue 1924 -- 1928

colleges due to the return of students whose courses had been interrupted by the war, the rehabilitation work, and the general prosperity of the farmers..... The economic depression of agriculture, which began in 1921 brought poculiar problems and intensified the desirability of more varoful and thorough attention to the needs of college teaching of exciculture." This statement was ande about the agricultural colleges in general but it in applicable to the stan Agricultural College. In examination of the markeultural onrollment of the college for the two years following the war (appendix Inbie II), bears out the statement about agricultural carollagato, and also indicated the Talling off which resulted from the agricultural depression on 1921. "The envolument of the Agricultural College surfered along with that of similar institutions all over the country as a result of the economic depression in agriculture which followed the war."

These adverse times for the agriculturalist meconsistated many readjustments on the part of the college.

Hany problems had to be solved in relation to the Suture contact of Utah's most important industry, which downded that even greater attention be devoted to the irrining of agricultural leaders on of farmers in general.

the speces which the college attained in these activities is pointed out in the following statement:

1. Thue, a. C. - Antabory of Landenth All Macation in the United States p. 309

2. Utght Educational Survey 1925 p. 309

"In short, during a period of great economic depression the agricultural college of Utah served the agricultural interests of the state to an extent received by few states, even though several which it outs also in the respects covered by the tabulation above (tables emitted) have attained a Cogree of development and of wealth much greater than that of Utah. The complaint frequently heard in Utah, that the Agricultural College is not giving enough attention to agriculture is due therefore, to some cause other than failure to provide agricultural education and encoll agricultural students."

The College Accredited

The college received recognition for its advancement and for the high quality of its work in 1927 by being admitted to the accredited liet of the association of American Universities: "which means that the college has received the work of quality in scholarship." By reason of this recognition the degrees issued by the college are accepted as standard by all the higher colleges and universities of the country, and that credits given by the college may be transferred at full value to other institutions.

to the college in 1929 and changed the name to Utah State
Agricultural Sollege.

The college in action

I. Utah bancational survey 1925 Report p. 311 28 2. Agricultural College of tah Catalogue 1927028 p. 32 3. Ibid. 1929-30 p. 36

The advantages of being accepted as an accredited institution became apparent to the authorities of the college and definite steps were taken to get the curriculum of the college organized in such a way that acceptance by the association would be possible. In pursue ance of this purpose Dr. Frank L. West went to the University of California, studied the organisation of the curriculum of that institution, and conferred with the deans regarding standards. Upon his return to began Dr. West made definite recommendations to the college council which resulted in a number of changes in the curriculum. These changes had to do chiefly with the relation of upper and lower division work. A more definite differentiation was made between work on the two levels of college instruction, the requirements for entrance to senior college standing were increased, and a number of upper division courses were lowered to junior college, thus making it possible to increase the standard of work in the college in general.

The stiffening of the requirements for entrance to upper division work is indicated by the changes in requirements regarding group work to be taken during the first two years. In 1926-27 the college required that students complete one half of the total group requirements for graduation and 1/3 of three of the groups required for graduation, during the first two years. In 1927-28 the college required that students complete forty-five quarter hours of credit in the four basic groups with not less than six hours in each of three of these groups. In 1928-29 the requirement read, "during the first two years the student is expected to completely satisfy the entrance requirements and complete 90 hours of college work which shall include 54 hours of work in the four basic groups..."

<sup>1.</sup> An interview with Dr. Frank L. West

<sup>2.</sup> Agricultural College of Utab Catalogue 1926-27 p. 48

<sup>3.</sup> Ibid. 1927-28 p. 72

<sup>4.</sup> Itid. 1928-29 p. 77

community whose interests are distinctly rural. Such a setting is very appropriate for an agricultural college. The lack of artificialities and the emplants placed upon rural life completes an environment in which the rural youth can feel at home, and gain his education without meeting the influences which might turn him from the life for which his background fits him, or away from sympathy with the class of society from which he oprang. It is not intended that all the young people from rural communitles should return to their hative chvironment and become factors, but it is intended that they should retain a respect and sympathy for moral life and supply the much meaded landership for the rural communities. This leaderwhip is not compaged of technical agriculturalists entirely but included also the professional classes whose cyapathy is very essential to the proper functioning of raral life.

The place of the teacher in the rural community is very important, inassuch as he is often the best educated person in the semanty and is looked up to for leadership and guinance. Under these conditions it is a decided advantage to the community if the teacher has a strail background which might give his more sympathy sith the people with whom he labore and an insight into their problems.

policy of the collect in training the gural youth of the state in the broad like a direct, and training rapal teachore not only in agriculture but in the arts and sciences as

well is not only justifiable but highly advantageous to the agricultural interests of the state.

The following is Doctor True's conception of the work of agricultural colleges: "(a) The general at of the agricultural colleges should be to prepare students to live in a rural community and work in agriculture or to work in the interests of agriculture one rural life, wherever they might life.

- (b) the peculiar objective of the individual college will vary with its environment, clientage, and resources, but may include training for the following sersol to in the agricultural field:
  - 1. General or mixed fermine.
- 2. Special farming such as seed growing, truck growing, ordered management, greenhouse management, animal Breeding (beef cattle, hogs, horses, etc.) dairy production, and poultry production.
- 5. Reaching in colleges or schools, extension work, county agent work. Journaliss.
- 4. 4. seses on an experiment station work.
  - 5. Administrative and regulatory work.

A study of the curriculum of the cologe and the purposes of such schools from the agricultural point of view as expressed by Doctor true leads to the conclusion that the Agricultural College of Utah is at aining great

buccess in the accomplisation of these purposes.

1. True, A. C. - A mistory of agricultural squestion in the United States p. 104

<sup>2.</sup> Uteh Sascational Survey 1925 p. 311

the organization of the agricultural College makes it a dynamic institution. Instead of being dependent wholly upon textbooks as the source of information which would tend to stepotype the work in an i practical form, the college can through the experiment station, test out new theories, apply general information to local conditions, and in general make the store of information a living, growing organism.

station it is the entry of the resident college to pass these facts, together with the compiled body of knowledge found in text books, and the discoveries of other institutions, on to the yours people who are to be leade a in the state. Execusing the leadership trained at the college and the set ivities of the extension division this knowledge is dispersed throughout the state in a usable form.

Probably no institutions have grown more raniels in power and in public favor than the land-grant colleges. These institutions distinctly belong to the state, at the same time they are the only group of institutions with federal affiliations. Secause of this dual attenment they have played an increasingly import at part in developing not only our great national resources but also a true national spirit. The important place which the applied sciences now held in modern university curricula is in a large measure due to the progressive educational policies

of the land-great colleges."

as a whole occupies in the educational system of am rica, and the influence it has exerted upon collegiate education in general, is necessary to a diagnosis of the curriculum of an individual college. The following passage indicates the conformity of the Utah agricultural college to the general trand in the land-grant system as well as giving the direction of the trend:

more democratic. The idea that 'not only should college education be open to everybody, but that nearly everybody should have it,' had been ridely apread, but experience had shown that the real problem was the selection by liberal and democratic arthods of those who would profit by higher education. The college curriculum has been greatly expanded and liberalized. Its auministration under a free elective system had been developed and pursued to an extreme, but a reaction bad set in which was resulting in the adoption of the group system of electives."

evident that washington, Johnson, and Madison, the times providents who took the most active part in educational

effairs during the early veers of the republic believed in 1. Copen, J. P.; John, E. C. - A Survey of Histor Subgation 1915-1918 (Regnoted from frue, A. G.-A Bintory of Agricultural subjection in the United States p. 293

2. True, A. C. - A Bintory of Agricultural Soucetion in the United States p. 296

education as the dissemination of knowledge for the enlightenment of the citizens of the country that they might participate intelligently in the affairs of government and live
their own lives happily and well. The writer believes that
this purpose of education is accomplished by the present
curriculum of the college as it is organized in co-operation with the other divisions of the college.

The interpretation of the Morrill Act as been considered fully in earlier pages, and its councidence with the curriculum of the Utah State Agricultural College has been pointed out as developments have been noted.

With these considerations in mind the writer agrees with the statement of President E. G. Peterson that the present corriculum of the college embodies the intentions of the founders of the land-grant college system, and the founders of the Utah State agricultural College.

## SULLMARK

The Agricultural College of Utah was established by an act of the Territorial legislature, which was approved March 8, 1838, and which accepted the terms of the Morrill Act of July 2, 1862.

The college was opened for instruction September 4, 1890. Because of the previous lack of educational facilities, preparatory work of elementary and secondary level became an important part of the college during its early years; more students being trained in these departments than in the retular college courses. Stemontary work was discontinued in 1905, and no high school work was offered after 1915, although vocational courses continued to fulfill some of the functions previously carried by these departments.

college raised its entrance requirements until in 1914

it was asserted by the Board of Prestees that the socalled standard requirements for entrance and graduation
were in effect at the college.

all courses as originally organized seve general in nature and continued to e so for from fourteen to twenty years thereafter. These departments of instruction gave little choice of subject anter except perhaps in general science or elective science as it was called during the first year of its existence (1895). The offering of the college during this period was theoretically limited to

the industrial fields, but in practice considerable emphasis was placed upon the "classical" studies, through the graduation requirements.

to adapt itself to the needs of the people of the state.
Entrance requirements have been maintained at levels
which best suited the needs of the people, classes have
been organized with the view of Siving the training most
needed in the state, and special services have been rendored the industrial classes, through the efforts of the experiment station and the extension service.

The college has given assistance to the state and federal governments both in emergencies and in less pressing situations. The definite state control together with the national connections has made such co-operation possible, thus greatly increasing the value of the services rendered.

The development of the Agricultural College of Utah has strikingly paralleled the growth of the damagement college movement of which it is a part. The Utah institution has been in the vanguard in many important developments such as the adoption of quarter divisions and the group elective system. It has stood well to the front when not hindered by adverse legislation.

Jealousy and conflict developed in Utah Setween the Agricultural College and the State University in much the

were established in the same relationship. In Utah, as in other states where this situation existed, the conflict took the form of restricting the offering of the Agricultural College in the arts and sciences. These influences greatly hampered the college for many years, but with the phenominal increase in college enrollment throughout the state and nation in recent years, much of the cause for conflict has been removed with the resultant increase in the offering of the college. The course of study act of 1927 gave legal recognition to this development, and made possible the organization of the present curriculum of the college.

The growth and improvement of the college and the high standards which it has been able to develop have resulted largely through the efforts of the progressive far-sighted men who have been members of the Board of Trustee, administrative officers of the college, and members of the college faculty.

The present curriculum of the college is the result of the movement for democratic higher education which has been active since colonial times.

## SUCCESTED CHANGES IN GROUP REQUIREMENTS

of the college is to give the student during his first two years a bread general training by requiring study in a variety of cultural fields. The group requirements as now in force (1930-34) allow the student to select the classes to be used to fill these requirements from a large group of technical subjects either in the Junior or Senior College.

The advocates of the new group requirements believe that the old system fails in its purpose in that the courses offered to fill the requirements are often highly specialized in nature, having for their purpose the preparation of students of future work in that particular subject rather than a general understanding of the field. The new system advocates the establishment of special classes of a general nature organized in such a way that the student will be given an insight into the field as a whole and not be burdened with the fact and theory related to the subject, that he may receive the philosophy of the subject rather than a technical knowledge of it.

under the new plan a student who has selected his major at the tile of enrollment in the Junior College will not be required to take the general courses in that field to fill his group requirements but may substitute the proquisites for his chosen work, however, in the other fields he will be required to take the general courses offered.

<sup>1.</sup> Noe page 82 of this theals.

The new system would make it impossible for a student to receive upper division credit before completing the group requirements, and would lower the number of hours required to fill the groups from 54 to 65.

the new system of group requirements which may be put into effect in 1934-33 is organized as follows:

"Junior College students will be required to complete 10 hours in Your groups of subjects and 5 hours in the fifth group before attaining senior college standing as follows:

Mast and Physical Sciences: 10 hours. Courses offered will be five credit hours. (Coneral Chemistry, General Physics, Coneral Geology, General Mathematics.)

Language-Arts: 10 hours, Courses of five hours offered.

(English Composition, the only required course in the new plan, Oral English, Conoral Miterature.)

social solence: 10 hours. Five nour courses offered in soveral subjects. (General Social science, General Sconomics, General Social Science and General Separal Solitical science and General Psychology.)

Biological Science: 10 hours. Five hour courses offered. (General Botany, General Zeology, Physiology, Bacteriology, Butrition.)

Group Five: b notes. No five hour courses listed.

(Ausic Appreciation, Art Appreciation, Drama Appreciation and General Activity Courses.) Appreciation classes in this group are three hour courses. The courses in General Activity, which will neither include or replace any existing classes, are two

hour sources. Total requirement for senior college standing is the completion of 45 quarter hours, or one year's work."

<sup>1.</sup> Jacobson, Dr. E. A.- An article in the Utah State Quarterly May, 1934. pp. 8-11.

APPSHOIX

-101
TRUE I

Comparison of Collegiate Enrollment With Preparatory, Secondary, and Total Enrollment for the Years 1895-1913 1

Year	iğegular Çallağlat	;% degular a:Collegiate	Preparato	ryjäekeol	lotal
1895	: 129		<i>3</i> 14		: 497
1896	181	24.94	312		: 485
1897	112	25,16	194	•	449
1898	140	29.43	207		479
1899	110	22.40	249		: 491
1900	100	26.31	12	69	390
1901	62	12.02	73	318	516
1902	33	6.05	68	: 347	545
1903	41	6.87	47	: 402	: 596
1904	29	3,98	36	<b>451</b>	727
1905	23	3.44		456	667
1906	29	3.77	<b>.</b>	: 375	769
1907	33	4.50		515	1 767
1908	36	4.24		499	850
1909	105	9.02		: 641	: 1164
1910	129	: 11.57		: 614	: 1106
1911 :	228	16.79		928	: 1417
1912	268	22.94		: 488	: 1168
1913	317	28 <b>.6</b> 5		33 <b>9</b>	: 1072
otal_	: 2054		1512	: :6421	: :14045_

(Compiled from college catalogues.)

<sup>1.</sup> Vocational and special students account for the missing numbers.

Part I

Enrollment by years from 1890 - 1933 at the Utah State

Agricultural College

-102-

Year	Collegiate	Total	Summer Session	orand Total	igrioulture	
189 <b>0</b>		1,59				
L8 <b>91</b>		292				
1892		<b>366</b>				- Control of the Cont
L895		264				
L894		360				* Secretarian
L <b>89</b> 5		497				
L8 <b>96</b>		485				A CONTRACTOR OF THE CONTRACTOR
1897		449				
1898		479				
1899		491				
<b>190</b> 0		380				
1901		516				
1902	58	<b>54</b> 5	· · · · · · · · · · · · · · · · · · ·	545		
1903	41	5 <b>96</b>	56	682		
1904	29	706	21	727		
1905	25	651	56	667		
1906	29	695	76	769		
1907	50	687	80	767		
1908	56	760	100	850		Ti o de la companya d
1909	105	1049	1.15	1164		
1910	128	<b>96</b> 6	140	1106		
1911	238	1267	150	1417		

-103-<u>TABLE II</u> Part II

Year	: Collegiate	: Potal	Summer Summer	Green Sotol	Agriculture : Mejore
1918	268	944	224	1168	
1913	317	804	268	1072	
1914	<b>54</b> 0	859	207	1046	<b>221</b>
1915	640	875	803	1063	210
1916	667	914	256	1170	203
1917	498	837	196	1035	121
1918	372	589	<b>2</b> 32	821	76
1919	665	1225	241	1466	203
1920	<b>67</b> 0	1174	547	1521	174
1921	716	1197	474	1671	156
1922	769	1144	582	1726	171
1923	757	952	451	1408	172
1924	881	986	1169	2 <b>14</b> 9	152
1925	949	1041	795	1856	131
1926	1088	1162	602	1659	<b>1</b> 38
1927	1152	<b>12</b> 22	500	1639	175
1928	1243	1294	500	1714	200
192 <b>9</b>	1324	1383	483	1808	240
1980	<b>1</b> 40 <b>5</b>	1454	503	1888	<b>550</b>
193 <b>1</b>	1570	1632	370	1921	<b>377</b>
<u> 198<b>2</b> </u>	1654	1675	668	2207	3/34

<sup>\*</sup>Students repeating counted byt once.

(Compiled by negistrar's Office.)

### -104-

# TABLE OF LETO-TABLE EVENCS

1888	College and Experiment Station Founded.
1890	College opened for instruction.
1900	Professorships established.
1901	Courses reorganized Work of college level
	differentiated from preparatory work.
	Three year high school organized.
1905	College organised into schools.
1905	Elementary work discontinued.
1906	Engineering elliminated by State law.
1907	Agricultural course broken up.
1911	agricultural engineering restored.
	Three years of high school work required
	for entrance to college courses.
1910	Group-elective system adopted.
1916	Four years of high school work required
	for entrance to college courses.
19/4	Smith-Jever Extension Act passed.
1915	High school work eliminated.
1916	Quarter division of term adopted.
1921	Education introduced.
1988	Office of Dean of the Familty created.
1927	Expansion of the ourriculum through the
	Course of Study Act.
	College accredited.
1929	State laws codified.

#### SUMMARY OF COLLEGIATE COURSES

The following charts present a graphic representation of the development of major courses in the college by schools. The horizontal lines represent years and the vertical lines represent major courses. The time of organization of the schools is indicated on the right sides of the charts.

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<sup>·</sup> Transferred to school of agricultural Engineering.

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<sup>1.</sup> Transferred to the School of Commerce. 2. Transferred to the School of Education.

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